

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452

Harold D. Ward, Cabinet Secretary www.dep.wv.gov

Monday, November 29, 2021 WELL WORK PERMIT Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC POST OFFICE BOX 12359 SPRING, TX 773914954

Re: Permit approval for BETTY SCHAFER MSH 3II 47-051-02417-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0450.

Operator's Well Number: BETTY SCHAFER MSH 3H Farm Name: ROY A SCHAFER JR & EDW U.S. WELL NUMBER: 47-051-02417-00-00 Horizontal 6A New Drill Date Issued: 11/29/2021

Promoting a healthy environment.

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. <u>Failure to adhere to the specified permit</u> conditions may result in enforcement action.

CONDITIONS

- This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 7. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- 8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
- 9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

API Number:

7

PERMIT CONDITIONS

11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

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4705102417 API NO. 47-051

WW-6B (04/15)

OPERATOR WELL NO. Betty Scheler MSH 3H Well Pad Name: Betty Schafer MSH Pad

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION

| I) Well Operat | or: SWN I | Production Co | ., LLC 4 | 94512924 | 051-Marsha | Sand Hil | l Moundsville |
|------------------------------------|--------------|----------------------|-----------------|-------------------|----------------|--------------------|-------------------------------|
| _ | | | (| Operator ID | County | District | Quadrangle |
| 2) Operator's V | Vell Numbe | r: Betty Schaf | er MSH 3I | H Well Pa | d Name: Betty | y Schafer N | /ISH Pad |
| 3) Farm Name | /Surface Ow | /ner: Roy A. Schafer | & Edward J. Sch | hafer Public Roa | ad Access: Big | y Wheeling | Creek |
| 4) Elevation, c | urrent groun | d: <u>848.4'</u> | Eleva | ation, proposed | post-construct | tion: <u>848.4</u> | 1 |
| 5) Well Type | (a) Gas | <u>x</u> | Oil | Und | erground Stora | ige | ····· |
| | Other | | | | | | |
| | (b)If Gas | Shallow 2 | ĸ | Deep | | g | ayne J Knitowski 11/10/20 |
| | | Horizontal | (| | | | |
| 6) Existing Pac | l: Yes or No | Yes | | | | | |
| 7) Proposed Ta Target Formation | - | | • | | • | • • | ', Associated Pressure- 3913' |
| 8) Proposed To | tal Vertical | Depth: 6005' | | | | | |
| 9) Formation a | | | arcellus | | | | |
| 10) Proposed T | otal Measu | ed Depth: 22 | 750' | | | | |
| 11) Proposed H | lorizontal L | eg Length: 11 | ,494.34' | | | | |
| 12) Approxima | te Fresh Wa | iter Strata Dept | ns: <u>28</u> | 81' | | | |
| 13) Method to 1 | Determine F | resh Water De | oths: Salin | nity calculations | from Betty Sch | afer MSH 8 | H (API 47-051-02297) |
| 14) Approxima | te Saltwater | Depths: 803' | Salinity Pr | ofile | | | |
| 15) Approxima | te Coal Sea | n Depths: 353 | | | | | |
| 16) Approxima | te Depth to | Possible Void (| coal mine. | karst, other): | None that we | are aware | of. |
| 17) Does Propo directly overlyi | | | | Yes <u>×</u> | Nc |) | |
| (a) If Yes, pro | vide Mine I | nfo: Name: | Ohio Co | unty Mine | | | |
| | | Depth: | 353' | | | | |
| | | Seam: | Pittsburg | gh | | | |
| | | Owner: | America | n Consolidate | d Natural Res | ources | |

API NO. 47-4517 0-5 1 0 2 4 1 7 OPERATOR WELL NO. Berty Schafer MSH 3H

Well Pad Name: Betty Schafer MSH Pad

WW-6B (04/15)

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CASING AND TUBING PROGRAM

| ТҮРЕ | <u>Size</u> (in) | <u>New</u> or Used | Grade | Weight per ft. (lb/ft) | <u>FOOTAGE: For</u> <u>Drilling (ft)</u> | INTERVALS: Left in Well (ft) | <u>CEMENT:</u> <u>Fill-up</u> (Cu. Ft.)/CTS |
|--------------|---------------------|--------------------------|----------|---------------------------|---|------------------------------------|---|
| Conductor | 20" | New | J-55 | 94# | 126' | 126' | CTS |
| Fresh Water | 13 3/8" | New | H-40 | 48# | 351' | 351' | 355 sx/CTS |
| Coal | See | Interm | Casing | | | | |
| Intermediate | 9 5/8" | New | J-55 | 36# | 1710' | 1710' | 758 sx/CTS |
| Production | 6 | New | P-110 HP | 24# | 0' | 4900' | |
| Tubing | 5 1/2" | New | P-110 HP | 20# | 4900' | 22750' | Tail 3747m/ 100' Inside Informodiato |
| Liners | | | | | | | |

| | | | | • | Bang In | Alm 9. | -30-21 |
|--------------|-----------|---------------------------------------|--|--------------------------------|---|------------------------------|--|
| TYPE | Size (in) | <u>Wellbore</u> Diameter (in) | <u>Wall</u> <u>Thickness</u> <u>(in)</u> | <u>Burst Pressure</u> (psi) | <u>Anticipated</u> <u>Max. Internal</u> <u>Pressure (psi)</u> | <u>Cement</u> <u>Type</u> | <u>Cement</u> <u>Yield</u> (cu. ft./k) |
| Conductor | 20" | 30" | 0.25 | 2120 | 81 | Class A | 1.20/30% Excess |
| Fresh Water | 13 3/8" | 17.5" | 0.380 | 2730 | 633 | Class A | 1.20/30% Excess |
| Coal | See | Interm | Casing | | | | |
| Intermediate | 9 5/8" | 12 1/4" | 0.395 | 3950 | 1768 | Class A | 1.19/40% Excess |
| Production | 5 1/2" | 8 3/4"-8 1/2" | 0.361 | 14360 | 10500 | Class A | 1.19/5% Excess |
| Tubing | | · · · · · · · · · · · · · · · · · · · | | | | | |
| Liners | | | | | | | |

PACKERS

| Kind: | ······································ | |
|-------------|--|--|
| Sizes: | | |
| Depths Set: | | |

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OCT 2-6 2021

WV Department of Environmental Protection



WW-6B (10/14) API NO. 47-<u>051</u> -OPERATOR WELL NO. Betty Schafer MSH 3H Well Pad Name: Betty Schafer MSH Pad

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill and stimulate any potential zones between and including the Benson to Marcellus. **If we should encounter a void place basket above and below void area- balance cement to bottom of void and grout from basket to surface or run external casing packer/cementing stage tool above void interval and perform 2 stage cementing operation dependent upon depth of void. Run casing not less than 20' below void nor more than 75' below void. (*If freshwater is encountered deeper than anticipated it must be protected, set casing 50' below and cts.)

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Well will be perforated within the target formation and stimulated with a slurry of water, sand, and chemical additives at a high rate. This will be performed in stages with the plug and perf method along the wellbore until the entire lateral has been stimulated within the target formation. All stage plugs are then drilled out and the well is flowed back to surface. In some instances, additional toe prep may be performed by pumping additional water in the toe of the well prior to perforating and pumping Stage 1 to ensure that the toe guns/toe sleeves are fully open prior to pumping stage 1. The well is produced through surface facilities consisting of high pressure production unites, horizontal separation units, water and oil storage tanks. Max press and anticipated max rate- 9000 lbs @ 100 barrels a minute.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 7.82

22) Area to be disturbed for well pad only, less access road (acres): 2.99

23) Describe centralizer placement for each casing string:

All casing strings will be ran with a centralizer at a minimum of 1 per every 3 joints of casing.

24) Describe all cement additives associated with each cement type:

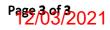
See Attachment ***

25) Proposed borehole conditioning procedures:

All boreholes will be conditioned with circulation and rotation for a minimum of one bottoms up and continuing until operator is satisfied with borehole conditions.

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*Note: Attach additional Protection



WR-35 Rev. 8/23/13 Page 1 of 4

State of West Virginia Department of Environmental Protection - Office of Oil and Gas Well Operator's Report of Well Work

County MARSHALL District SAND HILL 02297 47 - 051 API Quad MOUNDSVILLE Pad Name BETTY SCHAFER MSH PAD Field/Pool Name PANHANDLE FIELD WET Farm name BETTY JANE SCHAFER Well Number BETTY SCHAFER MSH 8H SWN PRODUCTION COMPANY, LLC Operator (as registered with the OOG) City SPRING Zip 77391-2359 Address PO BOX 12359 State TX As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey Northing 4,426,813.904 Easting 531,107.946 Top hole Northing 4,426,696.032 Easting 531,356.483 Landing Point of Curve Northing 4,424,785.481 Easting 532,079.900 **Bottom Hole** Elevation (ft) 848.4' GL Type of Well **#New** D Existing Type of Report Interim **#**Final Permit Type Horizontal Horizontal 6A Deviated **C** Vertical Depth Type Shallow Deep Type of Operation D Convert D Deepen D Plug Back 🖡 Drill LI Redrilling D Rework A Stimulate Well Type 🗇 Brine Disposal 🗅 CBM 🛢 Gas 🗇 Oil 🕒 Secondary Recovery 🗇 Solution Mining 🗇 Storage 👘 Other Type of Completion Single
Multiple Fluids Produced C Brine **#**Gas D NGL a Oil □ Other Drilled with a Cable Rotary Drilling Media Surface hole Air II Mud BFresh Water Intermediate hole Air D Mud D Fresh Water D Brine Production hole B Air A Mud □ Fresh Water □ Brine Mud Type(s) and Additive(s) SOBM 2/19/2020 3/19/2020 3/31/2020 Date permit issued Date drilling commenced Date drilling ceased 7/13/2020 8/20/2020RECEIVED Date completion activities began Date completion activities ceased N/A Gas N/A Ν Verbal plugging (Y/N) Date permission granted Granted by OCT 26 2020 Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug WV Department of Environmental Protection 280' Ν Freshwater depth(s) ft Open mine(s) (Y/N) depths 802' Ν Salt water depth(s) fl Void(s) encountered (Y/N) depths 352 N Coal depth(s) ft Cavern(s) encountered (Y/N) depths Ν Is coal being mined in area (Y/N)

WR-35

API 47-051 Farm name BETTY JANE SCHAFER 02297 Well number BETTY SCHAFER MSH 8H CASING Hole Casing New or Grade Basket Did cement circulate (Y/ N) STRINGS Size Size Depth wt/ft Used Depth(s) * Provide details below* Conductor 24 20 126 NEW J-55/94# Y Surface 17.5 13.375 331 NEW J-55/54.50# Y. 17 BBLS Coal SEE INTERMEDIATE Intermediate 1 12.25 9.625 1710 NEW J-55/36# **Y. 39 BBLS** Intermediate 2 Intermediate 3 Production 8.75/8.50 5.5 20437 NEW P-110/20# Y, 75 BBLS Tubing 2.875 6366 NEW P-110/6.5# Ν Packer type and depth set Comment Details CEMENT Class/Type Number Slurry Yield Volume Cement WOC DATA of Cement of Sacks (ft ³/sks) W (PPF) Top (MD) (hrs) Conductor CLASS A GROUT TO SURFACE SURFACE 24 Surface 340 CLASS A 15.60 1.20 SURFACE 408 8 Coal SEE INTERMEDIATE Intermediate 1 CLASS A 685 15.60 1.19 815.15 SURFACE 8 Intermediate 2 Intermediate 3 Production CLASS A 3.850 15.60 1.21 4,658.5 SURFACE 24 Tubing Drillers TD (ft) 20,447 Loggers TD (ft) 20,442 Deepest formation penetrated MARCELLUS Plug back to (ft) NA Plug back procedure N/A Kick off depth (ft) 5.311' -----Check all wireline logs run E caliper deviated/directional ■ density induction A neutron A resistivity 🛱 gamma ray **B** temperature ⊡sonic Well cored 🗆 Yes 🛤 No Conventional Sidewall Were cuttings collected D Yes No RECEIVED DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING Office of Oil and Gas SURFACE: 7 CENTRALIZERS - EVERY THIRD JOINT OF CASING OCT-26 2020-INTERMEDIATE: 24 CENTRALIZERS - EVERY THIRD JOINT OF CASING PRODUCTION: 181 CENTRALIZERS . EVERY THIRD JOINT FROM SURFACE TO TOP OF CURVE, THEN EVERY JOINT UNTIL TO WV Department of **Environmental Protection** WAS WELL COMPLETED AS SHOT HOLE DETAILS -----WAS WELL COMPLETED OPEN HOLE? 🗆 Yes 🛢 No DETAILS

WERE TRACERS USED 🛛 Yes 📕 No TYPE OF TRACER(S) USED



12/03/2021

Rev. 8/23/13

API 47- 051 02297 Farm name_BETTY JANE SCHAFER Well number_BETTY SCHAFER MSH 8H

PERFORATION RECORD

| Stage No. | Perforation date | Perforated from MD ft_ | Perforated to MD fL | Number of Perforations | Formation(s) |
|--------------|------------------|---------------------------|--|--|--------------|
| | SEE | ATTACHMENE | 1 | | |
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Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

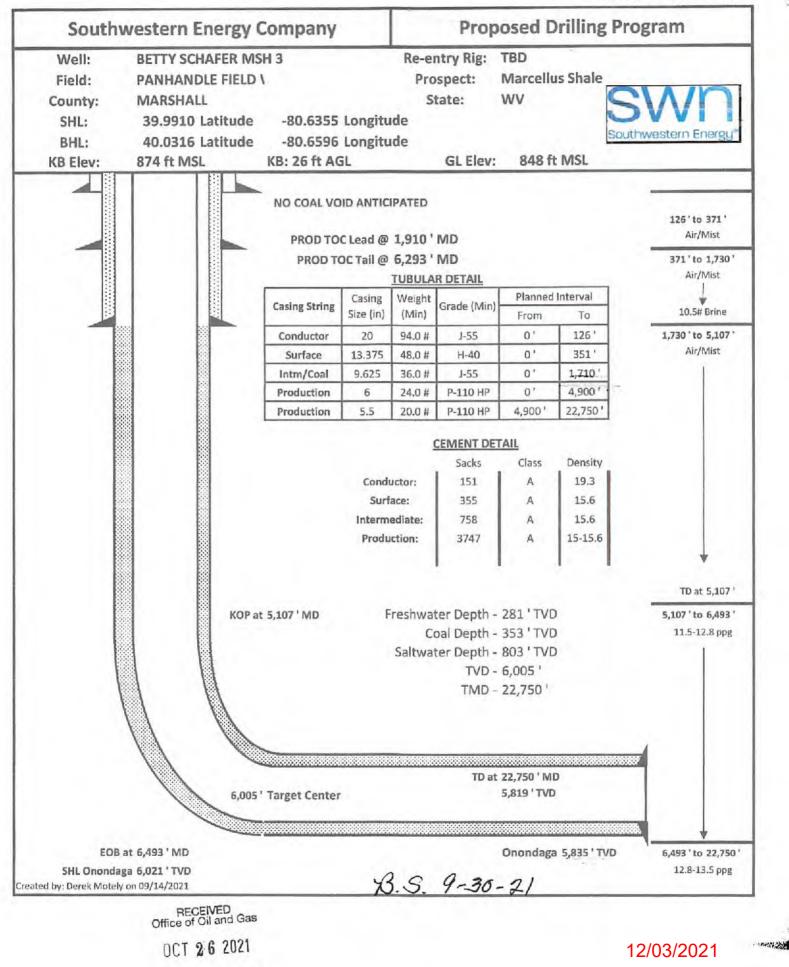
| Stage No. | Stimulations Date | Ave Pump Rate (BPM) | Ave Treatment Pressure (PSI) | Max Breakdown Pressure (PSI) | ISIP (PSI) | Amount of Proppant (lbs) | Amount of Water (bbls) | Amount of Nitrogen/other (units) |
|--------------|----------------------|------------------------|---------------------------------|---------------------------------|---------------------------------------|-----------------------------|---------------------------|--|
| | | SEE | ATTACHMENT | 2 | | 1 | | |
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Please insert additional pages as applicable.

| WR-35 Rev. 8/23/13 | | | | | | | | P | age <u>4</u> of <u>4</u> |
|----------------------------------|--------------------------------|------------------------------|--------------------------|--------------------------|-------------------------|-------------------|-----------------|--------------------------------------|-----------------------------------|
| API 47- 051 | _ 02297 | Гала і | BETTY. | JANE SC | HAFER | Well 1 | aumber_ | BETTY SCHAP | FER MSH 8H |
| PRODUCING | FORMATION | | <u>DEPTHS</u> 5,874' | _TVD | 6,209' | MD | | | |
| Please insert of | ditional pages a | s applicable. | | | | | | | |
| GAS TEST | n Build up n | Drawdown | 🗆 Open Flow | | OIL TEST | s Flow c | Pump | | |
| SHUT-IN PRE | SSURE Surf | BCC 2935 | _psi Botto | m Hole | psi | DURAT | rion o | F TEST | turs |
| OPEN FLOW | Gas 7,928 met | Oil pd <u>384</u> I | NGL | bpd | Water 1,038 bpd | GAS N 10 Estin | (EASU) nated | RED BY D Orifice D B | Pilot |
| Lithology/ Formation | TOP DEPTH IN FT NAME TVD | Bottom Depth en Ft TVD | top Depth in Ft MD | BOTTO DEPTII IN MD | FT DESCRIB | | | LECORD QUANTII IR, BRINE, ÓIL, GA | |
| | 0 SEE | ATTACHMENT | 0 3 | | | | | | |
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| | ditional pages (| | | | | | | •• ••• | |
| Drilling Contra Address PO BC | Stor SWN DRIL | LING COMPAN | IY Citv | SPRING | | State | TX | Zip 77391-23 | 5 9 |
| | BAKER HU | GHES | | | | | | | |
| Address 91100 | GROGANS MILL R | D | City | THEWO | DELANDS | Siste | TX | Zip | |
| Comenting Co Address _ 3990 I | mpany C&J ENI ROGERDALE RD | ERGY SERVICE | ES, INC City | HOUSTO | N | State | <u>x</u> | Zip77042 | RECEIVED Office of Oll and Gas |
| Stimulating Co | MILNER ROAD, G | BURTON ENER | City | HOUSTO | N | State | אז | Zip 77032 | OCT 26 2020 |
| | dditional pages (| | City | | ····· | | | r | WV Department of |
| | BOBBY WILLI | * | | | Telepho SULATORY ANA | ne 832-796 | -2884 | 0/22/2020 | Environmental Protectio |
| Signature | | 6 | | | | | | | |
| Submittal of T | lydrauße Frediu | ring Chemical | Disclosure Info | rmation | Attach copy | of FRAC | FOCUS | Registry | |

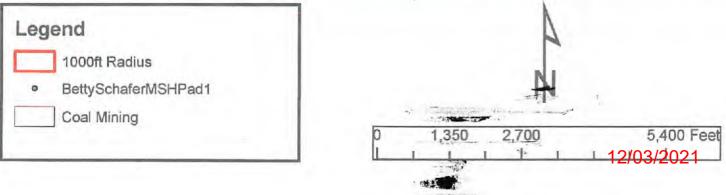
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WV Department of Environmental Protection





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Betty Schafer MSH 3H AOR

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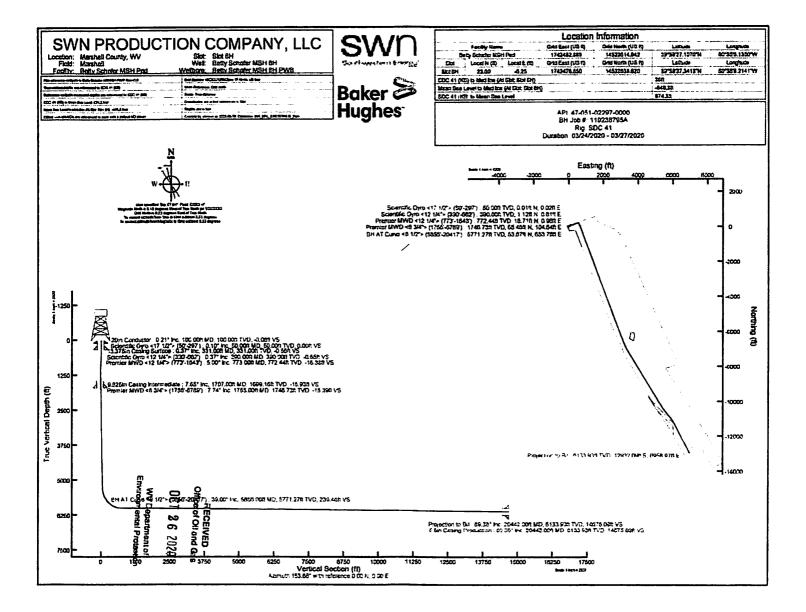
| API | Operator | Status | Latitude | Longitude | Vertical TD | Producing Formation | Producing Zones Not Perforated |
|--------------|----------|---------------------------------------|----------|-----------|-------------|---------------------|--------------------------------|
| 47-051-70052 | Unknown | Unknown | **** | **** | 970 | 2nd Cow Run | |
| | | | | | | | |
| 47-051-30429 | Unknown | Abandoned | **** | **** | Unknown | Unknown | |
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| | | | CEMENT A | ADDITIVES | | |
|-------------------------|---------------------------------|-----------------------|----------------------------|-------------------------------------|---|-------------|
| INTERVAL | SCHLUMBERGER PRODUCT NAME | BJ PRODUCT NAME | NEXTIER PRODUCT NAME | PRODUCT USE | CHEMICAL NAME | CAS-Number |
| SURFACE (FRESHWATER) | \geq | INTEGRA SEAL | C1600 | LOST CIRC MATERIAL | CELLOPHANE FLAKES | 9005-81-6 |
| up to 3% | S001 | A-7P | CJ110 | ACCELERATOR | CALCIUM CHLORIDE | 10043-52-4 |
| COAL PROTECTION | \geq | INTEGRA SEAL | C1600 | LOST CIRC MATERIAL | CELLOPHANE FLAKES | 9005-81-6 |
| up to 3% | S001 | A-7P | CJ110 | ACCELERATOR | CALCIUM CHLORIDE | 10043-52-4 |
| | D020 | BENTONITE | CJ020 | EXTENDER | BENTONITE | 1302-78-9 |
| | D047 | FP 28L | \times | LIQUID ANTIFOAM AGENT | POLYPROPYLENE GLYCOL | 25322-69-4 |
| INTERMEDIATE | \ge | INTEGRA SEAL | CJ600 | LOST CIRC MATERIAL | CELLOPHANE FLAKES | 9005-81-6 |
| | CemNet | | \ge | LOST CIRC MATERIAL | COATED FIBERGLASS FIBERS | PROPRIETAR |
| | SUGAR | SUGAR | CJ795 | CMT RETARDER | SUCROSE | 57-50-1 |
| | S001 | A-7P | CJ110 | ACCELERATOR | CALCIUM CHLORIDE | 10043-52-4 |
| | > < | > < | CJ111 | ACCELERATOR | SODIUM CHLORIDE | 7440-23-5 |
| | \ge | SS-11W | CJ880 | SURFACTANT | NONIONIC SURFACTANT | 6540-99-4 |
| | D047 | FP 28L | \ge | LIQUID ANTIFOAM AGENT | POLYPROPYLENE GLYCOL | 25322-69-4 |
| | \ge | \ge | CJX157011 | SOLID ANTIFOAM AGENT | FULLERS EARTH(ATTAPULGITE) | 8031-18-3 |
| | \ge | \ge | CJ540 | HP FLUID LOSS ADDITIVE | ALIPHATIC AMIDE POLYMER | PROPRIETARY |
| PRODUCTION | D255 | $\boldsymbol{\succ}$ | \times | MED TEMP FLUID LOSS ADDITIVE | POLYACRILIC POLYMER | PROPRIETARY |
| | \sim | \sim | CJ213 | RETARDER | CHRYSTALLINE SILICA | 14808-60-7 |
| | \geq | FL-66 | CJ501 | LOW TEMP FLUID LOSS ADD | POWDERED POLYSACCHARIDE | PROPRIETARY |
| | >> | BENTONITE | CJ020 | EXTENDER | BENTONITE | 1302-78-9 |
| | D208 | ASA-301 | \ge | VISCOSIFIER/ANTI- SETTLING AGENT | REFINED POLYMER/ CHRYSTALLINE SILICA | PROPRIETARY |
| | D198 | R-3 | | CEMENT RETARDER | LIGNIN | 8068-51-6 |
| 1 | SUGAR | SUGAR | CJ795 | CEMENT RETARDER | SUCROSE | 57-50-1 |



| WW-9 (4/16) | API Number 47 - 05" - |
|---|--|
| (4/18) | Operator's Well No. Betty Schafer MSH 3H |
| STA | ATE OF WEST VIRGINIA |
| | OF ENVIRONMENTAL PROTECTION |
| 01 | FFICE OF OIL AND GAS |
| FLUIDS/ CUTTIN | GS DISPOSAL & RECLAMATION PLAN |
| Operator Name SWN Production Co., LLC | OP Code 494512924 |
| Watershed (HUC 10) Wheeling Creek | Quadrangle Moundsville |
| Do you anticipate using more than 5,000 bbls of water | to complete the proposed well work? Yes 🔽 No |
| Will a pit be used? Yes No 🗸 | |
| If so, please describe anticipated pit waste: _ | |
| Will a synthetic liner be used in the pit? Yes | No 🗸 If so, what ml.? |
| Proposed Disposal Method For Treated Pit W | /astes; |
| Land Application | |
| Underground Injection (U) | IC Permit NumberVarious Approved Facilities) |
| Reuse (at API Number Att | |
| | form WW-9 for disposal location) |
| Other (Explain_recovery ar | Id solidification on site |
| Will closed loop system be used? If so, describe: Yes | s- See Attachment 3A |
| Drilling medium anticipated for this well (vertical and | |
| -If oil based, what type? Synthetic, petroleun | |
| | RECEIVED |
| Additives to be used in drilling medium? Attachment 2 | |
| Drill cuttings disposal method? Leave in pit, landfill, | removed offsite, etc. landfill OCT 2-6 2021 |
| -If left in pit and plan to solidify what mediur | |
| -Landfill or offsite name/permit number? Me | adowfill SWF- 1032, Short Creek SWF-1034,Carbon Limestone MSWL018781, Weize: County 1021 |
| Apex Sanitary Landfill 06-08438, Brooke | Co SWF-1013, |
| Permittee shall provide written notice to the Office of | Oil and Gas of any load of drill cuttings or associated waste rejected at any |

West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

| Company Official Signature Button Woody Company Official (Typed Name) Brittany Woody | |
|---|---|
| Company Official Title_ Senior Regulatory Analyst | |
| Subscribed and sworn before me this Hith day of Suptembe | v . 20 21 |
| My commission expires May 6 2023 | CELEVICIAL SEAL |
| | Buckhannon, WV 26201 My Commission Expires May 02,4033/202 |

| Form | W | W | -9 |
|------|---|---|----|
|------|---|---|----|

Operator's Well No. Betty Schafer MSH 3H

| SWN Productio | n Co., | LL | _C |
|---------------|--------|----|----|
|---------------|--------|----|----|

| roposed Revegetation Treatment: Acres I | Disturbed 7.82 | Prevegetation pl | I |
|---|-----------------------------|------------------|----------|
| Lime Tons/acr | e or to correct to pH _2.99 | | |
| Fertilizer type 10-20-20 | | | |
| Fertilizer amount_600/500 | lbs/acre | | |
| MulchHay/Straw | Tons/acre | | |
| | Seed Mixtures | | |
| Temporary | | Perma | nent |
| Seed Type lbs/acro | 2 | Seed Type | lbs/acre |
| Attachment 3C | | | |
| | | | |
| | | | |
| | | | |
| | | | |

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions ($L \times W \times D$) of the pit, and dimensions ($L \times W$), and area in acreage, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

| | Bang Ste | Drafe | | | |
|----------------------------|-----------|-------|------------|------------------------------------|--|
| omments: | | | | | |
| | | | REC | CEIVED Oil and Gas | |
| | | | ncT | 2.6 2021 | |
| | | | W [| Department of mental Protection | |
| | | | Eliano | | |
| | | | | | |
| _{ïtle:} Oil & Gas | Inspector | | Date: 9-30 | - 21 | |
| ield Reviewed? | () Yes |) | No | | |

Attachment 3A

CLOSED LOOP SYSTEM

The closed loop system is designed to eliminate the use of reserve pits by providing a higher level of solids control processing and using steel pits for capture of drill cuttings. The cuttings are then processed to achieve landfill requirements before hauling to approved landfills. The liquids are processed to recycle into the active mud system or to transfer to onsite temporary storage as needed.

The closed loop system consists of several sets of a shale gas separator (often called a 'methana'), several banks of solids shakers, high speed centrifuges (1 or 2) used to process the fluid portion of the mud system to remove low gravity solids, low speed centrifuge used for barite recovery in high weight liquid drilling systems, a dewatering system (for air intervals and if freshwater mud systems are in use) used to further clean liquids by flocculation and additional mechanical separation, associated open top tanks for processing liquids and capturing solids for disposal, and transfer pumps to move fluids through the processes. There is an area adjacent to the cuttings tanks (Red Zone) where a track hole is utilized to recover the processed cuttings for loading into containers for hauloff. (See attached schematic of a generic closed loop system layout)

Below are discussions of the processes used when drilling the air interval or liquids interval.

AIR DRILLING INTERVALS

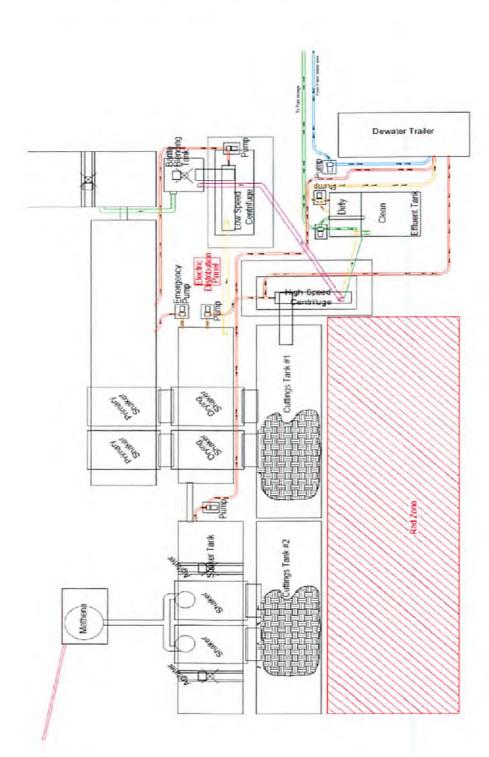
During air drilling operations, flow from the rig will pass down the flowline to the Shale Gas Separater (sometimes called a methane) where gas and liquids/solids are separated. Gas is sent to the flare scrubber tank and is flared at the flare stack. Solids and fluids pass across a shaker system to separate solids from liquids. Solids pass into the cuttings tanks where they are captured for drying and hauloff to an approved landfill site. Liquids fall into a shaker tank and are collected by a centrifugal pump to be processed by the high speed centrifuge to further separate liquids and solids. Solids are then dumped into the cuttings tank for drying and hauloff. Liquids are further processed to remove additional low gravity solids before being reused or transferred to onsite storage.

LIQUIDS DRILLING (FRESHWATER, BRINE, SOBM)

When drilling is converted to liquids drilling, the shale gas separator and associated shaker tank are bypassed, and the liquids system is processed over the primary and drying shaker systems. Cuttings drop into the cuttings tank for additional processing. Any recoverable associated liquids attached to the cutting are recovered out the tank and processed through the low gravity (high speed) and barite recovery centrifuges (low speed) to further remove low gravity solids and to recover barite for reuse in the mud systems.

Solids Control Layout

Southwastern Energy*



12/03/2021

EXAMPLE SCHEMATIC FOR CLOSED LOOP SOLIDS CONTROL SYSTEM

Attachment 3B

Drilling Mediums

Surface/Coal(if present)/Freshwater Intervals:

Air

Freshwater (if needed based on conditions)

Intermediate/Coal (if present):

Air

Production Hole:

Air

Synthetic Oil (Base Fluid for mud system)

Barite

Calcium Chloride

Lime

Organophilic Bentonite

Primary and Secondary Emulsifiers

Gilsonite

Calcium Carbonate

Friction Reducers

Attachment 3C

| SWN Southwestern Energy" | | WVD Seeding | Specification | $\frac{R^{2}}{A}$ V+ |
|--|------------------------|---|--|--|
| | eed contact Lyndsi Edd | y Flippo office 570-996-4271 cell 501-26 | 9-5451 lyndsi_eddy@swn.com (please allow 7 to 10 o | days for delivery) |
| NON-ORGANIC PROPERTIES | | | ORGANIC PROPERTIES | |
| Seed Mixture: ROW Mix | SWN | Supplied | Seed Mixture: SWN Production Organic | Mix SWN Supplied |
| Orchardgrass | 40% | | Organic Timothy | 50% |
| Timothy | 15% | | Organic Red or White Clover | 50% |
| Annual Ryegrass | 15% | | OR | |
| Brown Top Millet | 5% | | Organic Perennial Ryegrass | 50% |
| Red Top | 5% | | Organic Red or White Clover | 50% |
| Medium Red Clover | 5% | All legumes are | | |
| White Clover | 5% | innoculated at 5x normal | Apply @ 100lbs per acre April 16th- Oct. 14th | Apply @ 200lbs per acre Oct. 15th- April 15th |
| Birdsfoot Trefoil | 5% | rate | April 1911 Oct. 1411 | oct. Istir April Isti |
| lough Bluegrass | 5% | | Organic Fertilizer @ 200lbs per Acre | Pelletized Lime @ 2 Tons per Acre |
| Apply @ 100lbs per acre April 16th- Oct. 14th | O | pply @ 200lbs per acre :t. 15th- April 15th PLUS : per acre of Winter Wheat | WETLANDS (delineated as jurisdict | tional wetlands) |
| SOIL AMENDMENTS | | | Seed Mixture: Wetland Mix | SWN Supplied |
| .0-20-20 Fertilizer | *A | pply @ 500lbs per Acre | VA Wild Ryegrass | 20% |
| elletized Lime | A | pply @ 2 Tons per Acre | Annual Ryegrass | 20% |
| | *unless ot | herwise dictated by soil test results | Fowl Bluegrass | 20% |
| eeding Calculation Information: | | | Cosmos 'Sensation' | 10% |
| 1452' of 30' ROW/LOD is One Acre | | | Redtop | 5% |
| 871' of 50' ROW/LOD is One Acre | | | Golden Tickseed | 5% |
| 522' of 70' ROW/LOD is One Acre | | | Maryland Senna | 5% |
| | | | Showy Tickseed | 5% |
| ynopsis: | | the second second | Fox Sedge | 2.5% |
| Every 622 linear feet in a 70' ROW/LOD, | | | Soft Rush | 2.5% |
| bags of fertilizer and (80) 50lb bags of Li | me (2x seed in win | ter months + 50lb Winter | Woolgrass | 2.5% |
| Wheat/ac). | | | Swamp Verbena | 2.5% |
| pecial Considerations: andowner Special Considerations including | CREP program parti | cinants require additional | Apply @ 25lbs per acre April 16th- Oct. 14th | Apply @ 50lbs per acre Oct. 15th- April 15th |
| uidance that is not given here. Discuss the beginning of the project to allow time for sp | se requirements wit | | | E INSIDE WETLAND LIMITS |

Rev.1/13/2020

MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN



SWN Production Company, LLC 1300 Fort Pierpont Drive, Suite 201 Morgantown, West Virginia 26508

API NO. 47-XXX-XXXXX WELL NAME: Betty Schafer MSH 3H Moundsville QUAD Sand Hill DISTRICT MARSHALL COUNTY, WEST VIRGINIA

Submitted by:

Buttany Modely

Name: Brittany Woody

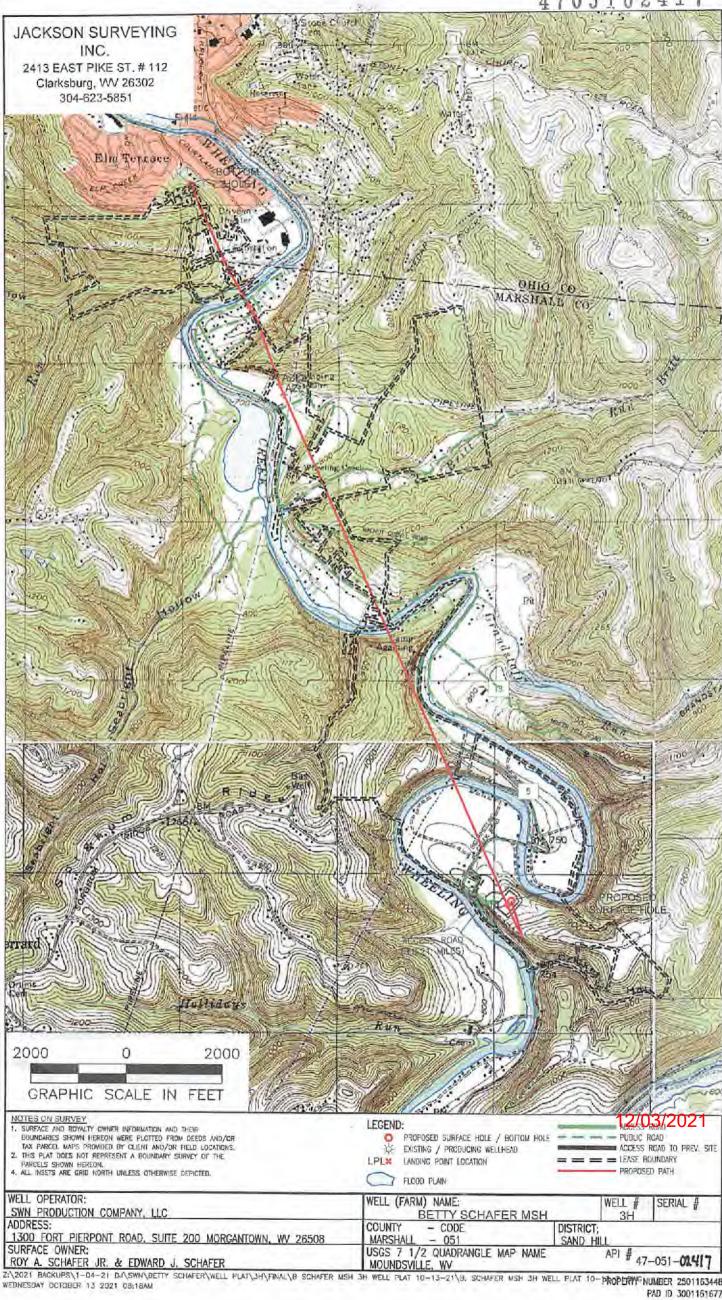
Title: Senior Regulatory Analyst

Bary Stly 9-30-21

Date: 9/8/2021

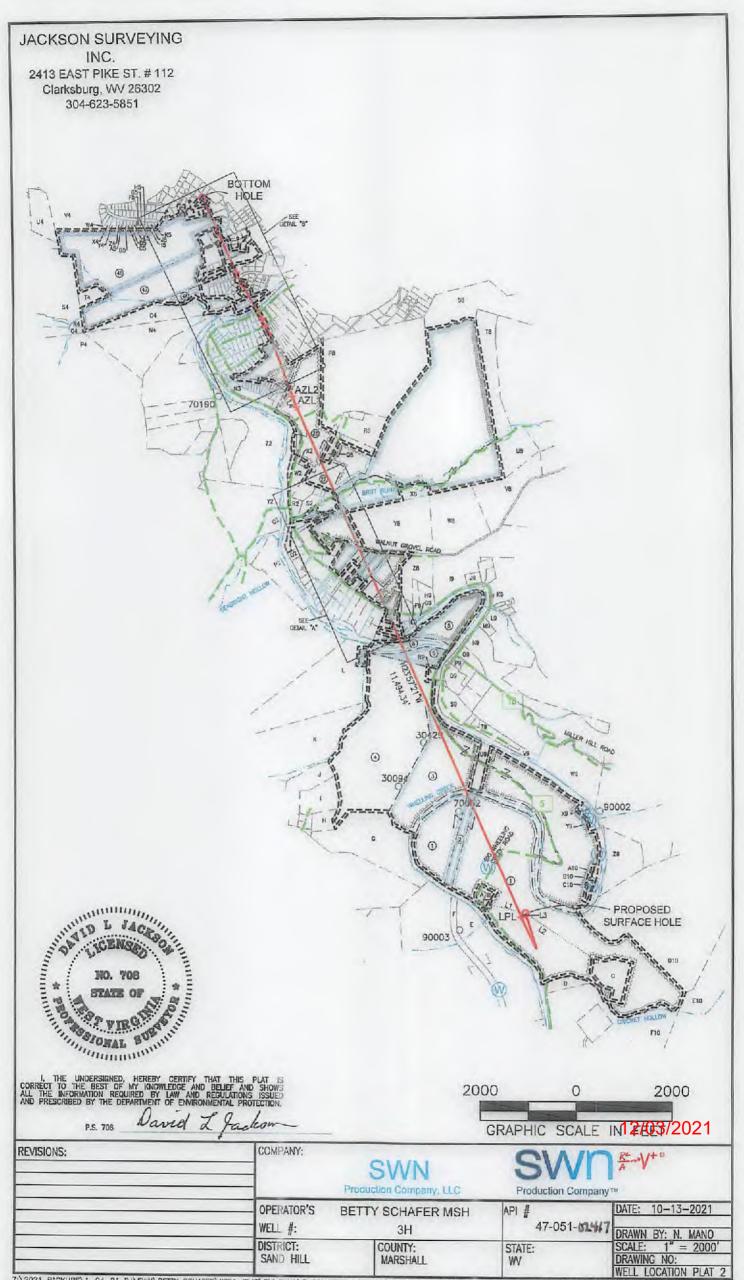
SWN Production Co., LLC

SWN PRODUCTION COMPANY, LLC - CONFIDENTIAL

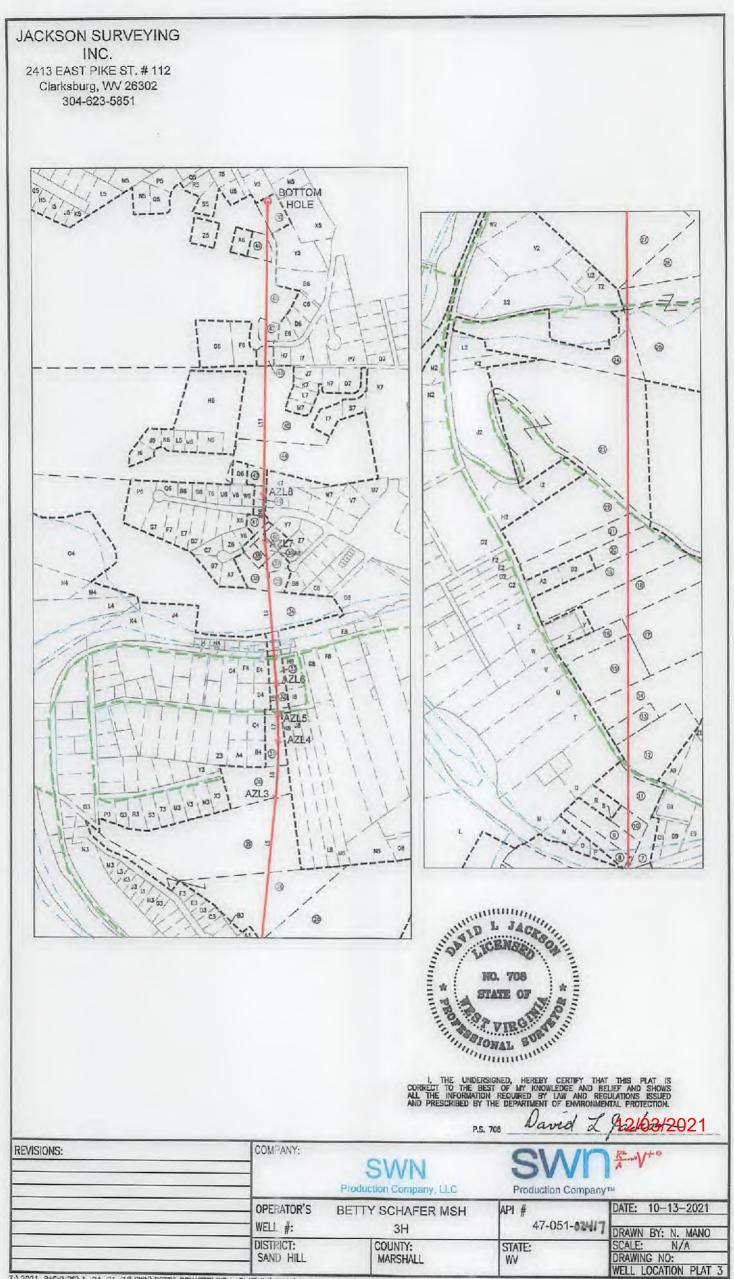


10-13-21\9. SCHAFER MSH 3H WELL PLAT 10-PROPERING NUMBER 2501163448 PAD ID 3001161677

| | Lotitude | : 40'00'00" SURF | ACE HOLE 294 | 7' | |
|--|--|---|-------------------------------|---|--|
| JACKSON SURVEYING | Latitude | a: 40°02'30" | BOT | TOM HOLE 9567 | |
| INC. | A | | in- | | 3653' |
| 2413 EAST PIKE ST. # 112 3 Clarksburg, WV 26302 | 1 | | | | 36 |
| 304-623-5851 | T | | | | HOLE |
| URFACE HOLE LOCATION (SHL): | N | | | | тон ноп |
| ORTHING: 4,426,823.710 | - | | | 1 | BOTTOM |
| TTM (NAD83, ZONE 17, METERS): 2, ORTHING: 4,426,800.469 | -6- | | | SHL | L |
| ZIMUTH POINT LOCATION-1 (AZL1): | - BHL | | | | |
| TM (NADB3, ZONE 17, METERS): ORTHING: 4,430,002.156 ASTING: 529,667.323 | L1 N 76 | | | MONUMENT D. 5/8" REBAR | - |
| ZIMUTH POINT LOCATION-2 (AZL2): TM (NADB3, ZONE 17, METERS): | L5 N 19 | "58'27" E 1706.87' S "17'53" W 1079.00' "47'51" W 150.21' | AZL2 TO AZL3 F | D. 5/8" REBAR D. 5/8" REBAR D. 5/8" REBAR | 80°37'30" |
| ORTHING: 4,430,068.097 ASTING: 529,541,181 ZIMUTH POINT LOCATION-3 (AZL3): | L11 N 23 | "18'44" W 822.07' "57'13" W 1699.32' BEARING DISTANCE | | D. 5/8" REBAR D. 5/8" REBAR DESCRIPTION | 80.3 |
| TM (NAD83, ZONE 17, METERS): | L3 5 4 L4 N 2 | B'27'20" W 114.97' 1'37'35" W 232.72' | 1461.75' 232.78' | SHL TO LPL AZL1 TO AZL2 | ude: |
| ORTHING: 4,430,378.495 ASTING: 529,532.492 ZIMUTH POINT LOCATION-4 (AZL4): | L8 N 2 | 2'32'55" W 324.67' 7'33'21" W 178.72' 6'37'58" W 268.39' | 324.83' 178.75' 268.47' | AZL3 TO AZL4 AZL5 TO AZL6 AZL7 TO AZL8 | Longitude: |
| TM (NADB3, ZONE 17, METERS): ORTHING: 4,430,469,891 ASTING: 529,494,544 | | | | | - |
| ZIMUTH POINT LOCATION-5 (AZL5): ITM (NAD83: ZONE 17, METERS): | | | | | |
| ORTHING: 4,430,511.112 ASTING: 529,474.519 | | | | | |
| ZIMUTH POINT LOCATION-6 (AZL6): JTM (NAD83, ZONE 17, METERS): IORTHING: 4,430,559,408 | | | | | |
| ASTING: 529,449.418 ZIMUTH POINT LOCATION-7 (AZL7): | - | _ | | | |
| ЛМ (NAD83, ZONE 17, METERS): ORTHING: 4,430,777.895 ASTING: 529,326.748 | 70052 | See | / | in On | |
| ZIMUTH POINT LOCATION-8 (AZL8): TTM (NAD83, ZONE 17, METERS): | | 0 | (| Sar wateral |) |
| ORTHING: 4,430,851.020 ASTING: 529,290.078 | (| 3Н | | 2: | |
| OTTOM HOLE LOCATION (BHL): TM (NADB3, ZONE 17, METERS): | 3000, | 12298 11776 12297 | 1 | 30. 19 29 11 1701 | / |
| ORTHING: 4,431,324,363 ASTING: 529,079,790 | | 12267 | 1 | INISET | |
| | (iii) | / | / | | |
| | EXISTING WITHIN SCALE: 1 | 3000/ | / | 1 | |
| WELL RESTRICTIONS 1. NO OCCUPIED DWELLINGS > 2500 SQ FT, WITHIN 625 FEET (| DF | | (| 3H 584'33'F | 1 |
| CENTER OF PAO. 2. NO AGRICULTURE BUILDINGS > 2500 SQ FT. WITHIN 625 FEE CENTER OF PAO. | TOF | | | JBOLD 29" SYCAMORI | |
| IND PROPOSED WELL NO PERINNAL STREAMS, LAKES, PONDS, OR RESERVOIRS WIT 100 FEET OF THE LIMITS OF DISTURBANCE. S NO NATURALLY DEPARTMENT PROVIDENT WITCH AND FETT | LIN . | | 20" SUGA | a / | / |
| No GROUND INTRACE, PUBLIC WATER SUPPLY WITHIN 1000 OF WELL PAD, LINIS OF DISTURBANCE, E & S CONTROLS OF PUBLIC WATER SUPPLY. | FET UNUT D L | SACE | | EFERENCES NTS | |
| SURFACE AND ROYALTY OWNER INFORMATION AND THEIR | STOR LICE | NSEDOW | 2000 | 0 | 2000 |
| BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AN TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCAT THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF TH | IONS. | 708 | 2000 | | 2000 |
| PARCELS SHOWN HEREON. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED. J. THE UNDERSIGNED, HEREBY CERTIFY THAT | THIS PLAT IS | | GRAPHIC | SCALE IN | FEET |
| I, THE UNDERSIGNED, HEREEN CERTIFY THAT ORRECT TO THE BEST OF MY KNOWLEDGE AND BELLE UL THE INFORMATION REQUIRED BY LAW AND REGUL ND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTA | D/OR nons. HE F AND SHOWS ANONS ISSUED L PROTECTION. F WELL ON MINIMUM | TRG LINIT COMP | ANY: | SW | A V+0 |
| P.S. 708 David Ly | action "inin | mannet Produ | clion Company, LLC | Production Comp | any M |
| (+) DENOTES LOCATION O | HIC MAPS DEGREE OF | - | | BETTY SCHAP | ER MSH |
| WVDEP | ACCURACY: | 1/200 OPER | ATOR'S WELL #: | 3H | |
| OFFICE OF OIL & GA | SOURCE OF G | RADE GPS | IELL #: 47 | 051 | 02417 |
| CHARLESTON, WV 250 | PRODUCTION DEE | | STATE | COUNTY | |
| ATERSHED: WHEELING CREEK (HUC-10) | | OND NO LL | UID INJECTION ELEVATION: | 848.4' | SHALLOW |
| ISTRICT: SAND HILL URFACE OWNER: ROY A. SCHAFER JR. & | COUNTY: MARSHALL EDWARD J. SCHAFER | | | E: MOUNDSVILLE ±205.06 | 5, WV |
| NL & GAS ROYALTY OWNER: ROY A. SCHA | | | ACREAGE: | ±205.06 | Topi units (|
| | CLEAN OUT & REPLUG | | SPECIFY) | PERFORATE NEW | FORMATION |
| ARGET FORMATION:MARCELLUS | | | ESTIMATED | DEPTH: 6,005 TV | |
| ELL OPERATOR: SWN PRODUCTION COMPA DDRESS: 1300 FORT PIERPONT ROAD, SU | ITE 200 | DESIGNATED AGENT: 1 ADDRESS: 1300 FOR | | SUITE 200 | |
| | ZIP CODE: 26508 | CITY: MORGANTOWN REVISIONS: | STATE: | WV_ZIP CODE: | |
| PROPOSED SURFACE HOLE / BOTTOM HOLE EXISTING / PRODUCING WELLHEAD | DRILLING UNIT | | | | 0-13-2021 |
| PLA LANDING POINT LOCATION | PROPOSED PATH | | | | " = 2000' |
| EXISTING SPRING 2021 BACKUPS\1-04-21 DJ\SWN\BETTY SCHAFER\WE DNESDAY DCTOBER 13 2021 01:01FM | LL PLAT\3H\FINAL\B SCHAFER MSH | 3H WELL PLAT 10-13-2118 | SCHAFER USU TU WELL | WELL LO | CATION DIAT |
| DNESDAY OCTOBER 13 2021 01:01PM | | 10.10-2110 | | | IUMBER 2501163448 PAD ID 3001161677 |



^{2:\2021} BACKUPS\1-04-21 DJ\SWN\BETTY SCHAFER\WELL PLAT\3H\FINAL\8 SCHAFER MSH 3H WELL PLAT 10-13-21\8. SCHAFER MSH 3H WELL PLAT 10-13-21.DWG WEDNESDAY OCTOBER 13 2021 08:15AM



Z:\2021 BACKUPS\1-04-21 DJ\SWN\BETTY SCHAFER\WELL PLAT\3H\FINAL\B SCHAFER MSH 3H WELL PLAT 10-13-21\B. SCHAFER MSH 3H WELL PLAT 10-13-21.DWG WEDNESDAY OCTOBER 13 2021 01:02PM

| 24 HIGGINS CONSTANCE L-LIFE (S) 12-0001-7.3 25 COFFIELD MICHAEL L& TYLENER (S) 12-0001-7.3 26 SUIGAR KAREN SCHENK (S) 12-0001-7.3 27 SUIGAR KAREN SCHENK (S) 12-0001-7.3 28 STACEY VILLAGE LTD PARTNERSHIP (S) 12-0001-5.2 28 STACEY VILLAGE LTD PARTNERSHIP (S) 12-0001-85 29 MERINAR KENNETH LEE, MERINAB JAMES MARDIN, MERINAB, 15-0001-85 15-0001-85 30 EBERHARD CAMERON JACOB (S) 15-0001-75 31 CALDWELL WILLIAM B & CRYSTALK (S) 15-0001-75 32 CATLETT HAROLD J(S) 15-0001-75 33 CATLETT HAROLD J(S) 15-0001-75 34 PERONI CONSTRUCTION INC (S) 15-0001-22 34 PERONI CONSTRUCTION INC (S) 15-0002-77 35 DORAN ROBERT F ET UK (S) 16-020C-10 36 DOVELONI J Z TAMMY R (S) 13-020C-20 37 DORAN ROBERT F ET UK (S) 15-020C-11 38 INAMERT KATHELEN S (S) 15-020C-12 39 SOUTH RIGNALD & & COMA (S) 13-020C-26 | Clarks | INC. ST PIKE ST. # 112 burg, WV 26302 | |
|--|---|---|---|
| TRACT SURFACE OWNER (S) TAX PARCEL 1 SCHAFER ROY AJR & SCHAFER EDWARD J(S) 12-0009-24 2 SCHAFER ROY AJR & SCHAFER EDWARD J(S) 12-0009-24 3 GRAY JOHN ALVIR (S) 13-0001-11 4 HARLONN JAND HART RENEE A(S) 13-0001-11 5 MAAS BRIAN J& ANY C-TRUST (S) 13-0001-10 6 MAAS BRIAN J& ANY C-TRUST (S) 13-0001-10 7 MAAS BRIAN J& ANY C-TRUST (S) 12-0018-10 8 MATTUCCI MARKA (S) 12-0018-11 9 GRIFFITH HOMAS JR & SHAWYAA (S) 12-0018-11 11 GRIFFITH HOMAS JR & SHAWYAA (S) 12-0018-11 12 GRIFFITH HOMAS A (S) 12-0018-13 13 STEGMAN MARS JR & SHAWYAA (S) 12-0018-13 14 ESTEP DOUGLAS J& LINDA R (S) 12-0011-37 15 MCULLEY JOSEP DAWILE ET UX (S) 12-0011-31 16 MOMAN BEWELL (S) 12-0012-32 17 LITTEL MIFELE LINN & SUBARI NOEL WOODGOW (S) 12-0001-33 16 MOMAN BEWELL (S) 12-0001-40 17 | 30 | 4-623-5851 | |
| TRACT SURFACE OWNER (S) TAX PARCEL 1 SCHAFER ROY AJR & SCHAFER EDWARD J(S) 12-0009-24 2 SCHAFER ROY AJR & SCHAFER EDWARD J(S) 12-0009-24 3 GRAY JOHN ALVIR (S) 13-0001-11 4 HARLONN JAND HART RENEE A(S) 13-0001-11 5 MAAS BRIAN J& ANY C-TRUST (S) 13-0001-10 6 MAAS BRIAN J& ANY C-TRUST (S) 13-0001-10 7 MAAS BRIAN J& ANY C-TRUST (S) 12-0018-10 8 MATTUCCI MARKA (S) 12-0018-11 9 GRIFFITH HOMAS JR & SHAWYAA (S) 12-0018-11 11 GRIFFITH HOMAS JR & SHAWYAA (S) 12-0018-11 12 GRIFFITH HOMAS A (S) 12-0018-13 13 STEGMAN MARS JR & SHAWYAA (S) 12-0018-13 14 ESTEP DOUGLAS J& LINDA R (S) 12-0011-37 15 MCULLEY JOSEP DAWILE ET UX (S) 12-0011-31 16 MOMAN BEWELL (S) 12-0012-32 17 LITTEL MIFELE LINN & SUBARI NOEL WOODGOW (S) 12-0001-33 16 MOMAN BEWELL (S) 12-0001-40 17 | | | |
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| TRACT SURFACE OWNER (S) TAX PARCEL 1 SCHAFER ROY AJR & SCHAFER EDWARD J(S) 12-0009-24 2 SCHAFER ROY AJR & SCHAFER EDWARD J(S) 12-0009-24 3 GRAY JOHN ALVIR (S) 13-0001-11 4 HARLONN JAND HART RENEE A(S) 13-0001-11 5 MAAS BRIAN J& ANY C-TRUST (S) 13-0001-10 6 MAAS BRIAN J& ANY C-TRUST (S) 13-0001-10 7 MAAS BRIAN J& ANY C-TRUST (S) 12-0018-10 8 MATTUCCI MARKA (S) 12-0018-11 9 GRIFFITH HOMAS JR & SHAWYAA (S) 12-0018-11 11 GRIFFITH HOMAS JR & SHAWYAA (S) 12-0018-11 12 GRIFFITH HOMAS A (S) 12-0018-13 13 STEGMAN MARS JR & SHAWYAA (S) 12-0018-13 14 ESTEP DOUGLAS J& LINDA R (S) 12-0011-37 15 MCULLEY JOSEP DAWILE ET UX (S) 12-0011-31 16 MOMAN BEWELL (S) 12-0012-32 17 LITTEL MIFELE LINN & SUBARI NOEL WOODGOW (S) 12-0001-33 16 MOMAN BEWELL (S) 12-0001-40 17 | | | |
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| TRACT SURFACE OWNER (S) TAX PARCEL 1 SCHAFER ROY AJR & SCHAFER EDWARD J(S) 12-0009-24 2 SCHAFER ROY AJR & SCHAFER EDWARD J(S) 12-0009-24 3 GRAY JOHN ALVIR (S) 13-0001-11 4 HARLONN JAND HART RENEE A(S) 13-0001-11 5 MAAS BRIAN J& ANY C-TRUST (S) 13-0001-10 6 MAAS BRIAN J& ANY C-TRUST (S) 13-0001-10 7 MAAS BRIAN J& ANY C-TRUST (S) 12-0018-10 8 MATTUCCI MARKA (S) 12-0018-10 9 GRIFFITH HOMAS JR & SHAWYAA (S) 12-0018-11 11 GRIFFITH HOMAS JR & SHAWYAA (S) 12-0018-11 12 GRIFFITH HOMAS A (S) 12-0011-37 13 STEGMAN MARS JR & SHAWYAA (S) 12-0011-37 14 ESTEP DOUGLAS J& LINDA R (S) 12-0011-31 15 MCULLEY JOSEP DAWILE ET UX (S) 12-0001-31 16 MCAN HERE IC UX (S) 12-0001-32 17 LITTEL MINELE (LINN & SUBARINDEL WOODGROW (S) 12-0001-30 16 MCAN HERE IC UX (S) 12-0001-31 17 </td <td></td> <td></td> <td></td> | | | |
| TRACT SURFACE OWNER (S) TAX PARCEL 1 SCHAFER ROY AJR & SCHAFER EDWARD J(S) 12-0009-24 2 SCHAFER ROY AJR & SCHAFER EDWARD J(S) 12-0009-24 3 GRAY JOHN ALVIR (S) 13-0001-11 4 HARLONN JAND HART RENEE A(S) 13-0001-11 5 MAAS BRIAN J& ANY C-TRUST (S) 13-0001-10 6 MAAS BRIAN J& ANY C-TRUST (S) 13-0001-10 7 MAAS BRIAN J& ANY C-TRUST (S) 12-0018-10 8 MATTUCCI MARKA (S) 12-0018-10 9 GRIFFITH HOMAS JR & SHAWYAA (S) 12-0018-11 11 GRIFFITH HOMAS JR & SHAWYAA (S) 12-0018-11 12 GRIFFITH HOMAS A (S) 12-0011-37 13 STEGMAN MARS JR & SHAWYAA (S) 12-0011-37 14 ESTEP DOUGLAS J& LINDA R (S) 12-0011-31 15 MCULLEY JOSEP DAWILE ET UX (S) 12-0001-31 16 MCAN HERE IC UX (S) 12-0001-32 17 LITTEL MINELE (LINN & SUBARINDEL WOODGROW (S) 12-0001-30 16 MCAN HERE IC UX (S) 12-0001-31 17 </td <td></td> <td>WELL BORE TRACTS</td> <td></td> | | WELL BORE TRACTS | |
| 1 SCHAFER ROY A JR & SCHAFER EDWARD J (S/R) 12-008-22 TRACT SUBFACE CWINER (5) TAK PARCE 2 SCKAFER ROY A JR & SCHAFER EDWARD J (S) 13-0009-34 3 GRAY JOHN ALWR (S) 13-0009-14 4 HART JOHN J AND HART RENEE A (S) 13-0001-16 5 MAAS BIRIAN JR, AMY C-TRUST (S) 13-0001-16 6 MAAS BIRIAN JR, AMY C-TRUST (S) 13-0001-16 7 MALABSIN PETE ET UX (S) 12-0018-30 9 GREENE JANNELLE R (S) 12-0018-31 11 GRIFFITH HOWAS JR (S) 12-0018-31 12 GRIFFITH HOWAS A (S) 12-0018-31 13 STEGMAN MATTHEW DET UX (S) 12-0018-31 14 ESTEP DOUGLAS JS (LINDA K (S) 12-0001-35 15 SUGAR NOEL W & CHRISTA M (S) 12-0001-36 16 MCCULEF JOSEPH DANIEL ET UX (S) 12-0001-37 17 LITTEL MINELET VIN & SUGAR NOEL WOODROW (S) 12-0001-40 17 LITTEL MINELET VIN & SUGAR NOEL WOODROW (S) 12-0001-42 17 LITTEL MINELET VIN & SUGAR NOEL WOODROW (S) 12-0001-4 | TRACT | | TAX PARCEL |
| 2 SCKAPER BOY A JR & SCHAPER EDWARD J (S) 12-0003-14 3 GRAY JOHN ALWR (S) 13-0003-14 4 HART JOHN J JAN D HART RENEE A (S) 13-0003-14 5 MAAS BRIAN J & AMY C- TRUST (S) 13-0003-16 6 MAAS BRIAN J & AMY C- TRUST (S) 13-0003-16 7 MALAGSN PETE ET LVK (S) 12-0018-31 8 MATTUCCI MARKA (S) 12-0018-31 9 GREENL-JANNELLER (S) 12-0018-31 11 GRIFFITH KOHN W & BARBARA J (S) 12-0018-31 12 GRIFFITH HOMA S II & STIAW NA (S) 12-0018-31 13 STEGMAN MARS II & STIAW NA (S) 12-0018-32 14 ESTEP DOUGLAS J & LINDA R (S) 12-0001-38 15 SUGAR MOEL W & CHBISTA M (S) 12-0001-39 16 MCULLEY LOSE PH DANIEL ET LVK (S) 12-0001-39 17 UTTEUL MERLE LVAN & SUGAR NOEL W & CHBISTA M (S) 12-0001-30 16 MCALU S & SUGAR NOEL W & CHBISTA M (S) 12-0001-31 17 UTTEU MERLE NOBOGEAS (S) 12-0001-32 18 ROMAN BERNET ALLEN D DOREL MOCKS (S) 12-0 | | | |
| 3 GRAY JOHN ALVIN (5) 13-0001-14 4 HANT JOHN J AND HART RENEE A (5) 13-0001-10 5 MAAS BIRLAN J & AMYC - TRUST (5) 13-0001-00 6 MAAS BIRLAN J & AMYC - TRUST (5) 13-0001-00 7 MALLARSKI PETE ET UK (5) 12-0018-34 8 MATTUCCI MARK A (5) 12-0018-31 9 GREENE JANNELLE RT (5) 12-0018-31 10 FERRERA THOMAS JR & SHAWINA (5) 12-0018-31 11 GRIFFITH HOMINAS JR & SHAWINA (5) 12-0018-31 12 GRIFFITH HOMAS JR & SHAWINA (5) 12-0018-32 13 STEGMAN MATTHEW D ET UK (5) 12-0011-35 14 ESTEP DOUGLAS J & LINDA R (5) 12-0001-36 15 SLIGAR NOEL W & CHRIST AM (5) 12-0001-37 16 MCCULLF JOSEPH DANIEL ET UK (5) 12-0001-39 17 LITTEL, MIHEULE UNIN & SUGAR NOEL WOODROW (5) 12-0001-40 19 EARNEST ALLEN DOUGLAS (5) 12-0001-40 19 EARNEST ALLEN DOUGLAS (5) 12-0001-42 20 HENRY LORI MYLES (5) 12-0001-42 | TRACT | | TAX PARCEL |
| 4 HART DENK J AND HART REVEE A (5) 13-0003-10 5 MAAS BIRAN J & AMY C - TRUST (5) 13-0020-80 6 MAAS BIRAN J & AMY C - TRUST (5) 13-0020-80 7 MALARSKI PETE E ET UX (5) 12-0018-30 8 MATTUCCI MARKA (5) 12-0018-30 9 GERENI-JANNELLE R (5) 12-0018-30 10 FERRENA THOMAS JIL & SHAW NA (5) 12-0018-31 11 GRIFFITH JOIN W & GARBARA J (5) 12-0018-32 12 GRIFFITH THOMAS A (5) 12-0018-31 14 ESTED DOUGLAS J & UNDA R (5) 12-0018-32 15 SLIGAR NOEL W & CHRISTA M (5) 12-0017-38 16 MCCULEY JOSEPH DANIE, ET UX (5) 12-0001-43 17 LITTELL MIHELLY UNN & SUGARI NOEL WOORDOW (5) 12-0001-41 19 EARNET ALLEN DOUGLAS J (5) 12-0001-42 20 HENRY LORI MYLES (5) 12-0001-43 21 HENRY LORI MYLES (5) 12-0001-43 22 KMAPE LIEF PERY J & BARBARA J (5) 12-0001-43 23 COTFFILL MORKALLE T VIX (5) 12-0001-43 | | | |
| 5 MAAS BRIAN J & AMY C - TRUST (5) 13-0023-08 6 MAAS BRIAN J & AMY C - TRUST (5) 13-0023-08 7 MALARSKI PETE EET UX (5) 12-0018-30 8 MATTUCCI MARCA (5) 12-0018-30 9 GREENE JANNELLE R (5) 12-0018-30 10 FEBRERA THOMAS JIE & SHAW NA (5) 12-0018-31 11 GRIFFITH JOHN W & BARBARA J (5) 12-0018-32 12 GRIFFITH HOMAS A (5) 12-0018-32 13 STEGMAN MATTHEW D ET UX (5) 12-0013-32 14 ESTEP DOUGLAS J & LINDAR R (5) 12-0013-32 15 SLIGAR NOEL W & CHRISTA M (5) 12-0013-33 16 MCCULEY JOSEPH DANIEL ET UX (5) 12-0014-03 17 LITTELL MIHELE LYNN & SUIGAR NOEL WODOROW (5) 12-00140 19 EARNET ALLEN DOUGLAS J (5) 12-0001-42 20 HENRY LORI MYLES (5) 12-0001-42 21 HENRY LORI MYLES (5) 12-0001-42 22 KMPEL TIM WET UX (5) 12-0001-42 23 MAARDEL LETYPENER (5) 12-0001-42 24 H | | | |
| 6 MAAS BRIAN J & AMY C - TRUST (5) 13-0020-08 7 MALARSKI PETE ET UK (5) 12-0018-34 8 MATTUCCI MARKA (5) 12-0018-34 9 GREEN JANNELLE R (5) 12-0018-30 10 FERRERA THOMAS JIL & SHAWINA (5) 12-0018-30 11 GRIFFITH HOMAS JIL & SHAWINA (5) 12-0018-30 12 GRIFFITH HOMAS JIL & SHAWINA (5) 12-0018-32 13 STEGMAN MATTHEW D ET UX (5) 12-0018-35 14 ESTEP DOUGLAS J & LINDA R (5) 12-0001-35 15 SLIGAR NOEL W & CHRISTA M (5) 12-0001-36 16 MCCULEY JOSEPH DANIEL ET UX (5) 12-0001-40 17 LITTELL MIHELE LYANN & SUBAR NOEL WOODROW (5) 12-0001-40 18 ROMAN EWELL (5) 12-0001-40 20 HANNYL DRI MYLES (5) 12-0001-40 21 HENRY LORI MYLES (5) 12-0001-40 22 KIMPEL TIM WET UX (5) 12-0001-40 23 MARPLE JEFREY J & BARBARA J (5) 12-0001-40 24 HIGGINS CONSTANCEL - LIFE (5) 12-0001-32 25 | | | |
| 7 MALARSKI PETE E ET UX (S) 12 0018-39 8 MATTUCCI MARKA (S) 12 0018-39 9 GREENEJ JANNELLE R (S) 12 0018-30 10 FERRERA THOMAS JII & SHAWINA (S) 12 -0018-30 11 GRIFFITH HOMIN W & BARBARA J (S) 12 -0018-32 12 GRIFFITH HOMIN W & BARBARA J (S) 12 -0018-32 13 STEGMAN MATTHEW DET UX (S) 12 -0017-35 14 ESTEP DOUGLAS J & LINDA R (S) 12 -0001-35 15 SLIGAR NOEL W & CHRISTA M (S) 12 -0001-35 16 MCCULEY JOSEPH DANIEL ET UX (S) 12 -0001-40 17 LITTELL MIHELLE LINN & SUGAR NOEL MODOROW (S) 12 -0001-40 19 EARNEST ALLEN DOUGLAS (S) 12 -0001-40 20 HENRY LORI MYLES (S) 12 -0001-42 21 HENRY LORI MYLES (S) 12 -0001-42 22 KUMPEL TIM WET UX (S) 12 -0001-42 23 MARPLE EFREPT S & BARBARA J (S) 12 -0001-42 24 HINGRIN SCONSTANCEL - LIFE (S) 12 -0001-73 25 COPFIELD MYCHAEL & TYLENE R (S) 12 -0001-73 | | | |
| 8 MATTUCCI MARKA (5) 12:0016-29 9 GREENEJ JANNELLE R(5) 12:0016-30 10 FERREAR TOMAS JR. 65 HAWNA (5) 12:0016-30 11 GRIFFITH JOHN W & BARBARA J(5) 12:0016-30 12 GRIFFITH JOHN W & BARBARA J(5) 12:0016-37 13 STEGMAN MATTHEW DET UX (5) 12:0001-37 14 ESTEP DOUGLAS J.& LINDA R (5) 12:0001-39 15 SLIGAR NOEL W & CHRISTA M (5) 12:0001-39 16 MCCULEY JOSEPH DANIEL ET UX (5) 12:0001-39 17 UITELL MIRELE LYNN & SUGAR NOEL WOODOROW (5) 12:0001-40 19 EARNEST ALLEN DOUGLAS (5) 12:0001-42 21 HENRY LORI MYLES (5) 12:0001-42 22 KIMPEL TIM WET UX (5) 12:0001-42 23 MARDLEJEFFREY J & BARBARA J (5) 12:0001-42 24 HIGGINS CONSTANCEL - UFE (5) 12:0001-42 25 COFFIELD MICHAEL & TYLENER (5) 12:0001-52 26 SUGAR KAREN SCHENK (5) 12:0001-52 27 SUGAR KAREN SCHENK (5) 12:0001-52 26 | | | |
| 10 FERRENA THOMAS JIL & SHAWINA (5) 12-0018-31.1 11 GRIFFITH JOINN W. & GARGARA J (5) 12-0018-32.1 12 GRIFFITH JOINN W. & GARGARA J (5) 12-0018-32.1 12 GRIFFITH THOMAS A (5) 12-0013-31.1 13 STEGMAN MATTHEW DET UX (5) 12-0013-35.1 14 ESTEP DOUGLAS J & LINDA R (5) 12-0013-35.1 15 SLIGAR NOEL W. & CHRISTA M (6) 12-0001-36.3 16 MCCULEY JOSEPH DANEL ET UX (5) 12-0001-45.3 17 LITTELL MINELLE LYNN & SUGAR NOEL WOODROW (5) 12-0001-40.3 19 EARNEST ALLEEN DOUGLAS J (5) 12-0001-40.3 10 CULTEV NOR & SUGAR NOEL WOODROW (5) 12-0001-40.3 11 HERRY LORI MWLES (5) 12-0001-40.3 12 MARPLE JEFREY JS & BARBARA J (5) 12-0001-42.3 12 KIMPELTIN WET UK (5) 12-0001-42.3 13 COFFIELD MICHAEL & TYLENE R (5) 12-0001-43.3 14 HIGGINS CONSTANCEL - UFE (5) 12-0001-35.2 15 SUGAR ARAEN SCHENK (5) 12-0001-35.3 16 SUGAR ARAEN SCHENK (5) | | | |
| 11 GRIFFITH JOHN W.& BARBARA J (5) 32-0018-32 12 GRIFFITH THOMAS A (5) 12-0001-37 13 STEGMAN MATTHEW DE UX (5) 12-0001-35 14 ESTEP DOUGLAS J & LINDA R (5) 12-0001-35 15 SLIGAR NOEL W.& CHRISTA M (5) 12-0001-35 15 SLIGAR NOEL W.& CHRISTA M (5) 12-0001-35 16 MCCULLY JOSEPH DANIELET UX (5) 12-0001-35 17 LITTELL MIHELE LYNN & SUGAR NOEL WOODROW (5) 12-0001-40 19 EARNEST ALLEN DOUGLAS (5) 12-0001-40 20 HENRY LORI MYLES (5) 12-0001-42 21 HENRY LORI MYLES (5) 12-0001-42 22 KIMPEL TIM WET UX (5) 12-0001-42 23 MARDELEFREY S & BARBARA 1(5) 12-0001-42 24 HIGGINS CONSTANCEL - LIFE (5) 12-0001-73 25 COPFIELD MICHAEL & TYLENE R (5) 12-0001-75 26 SLIGAR KAREN SCHENK (5) 12-0001-75 27 SLIGAR KAREN SCHENK (5) 12-0001-75 28 STACEY VILLAGE UT PARTNERSHIP (5) 12-0001-75 31 | 9 | GREENE JANNELLER (S] | 12-0018-30 |
| 12 GRIFFITH THOMAS A (\$) 12-0001-37 13 STEGMAN MATTHEW D ET UX (\$) 12-0011-35 14 ESTEP DOUGLAS J & LINDA R (\$) 12-0011-35 15 SLIGAR NOEL W & CHRISTA M (\$) 12-0001-39.2 16 MCCULLEY JOSEPH DANIEL ET UX (\$) 12-0001-39.3 17 LITTELL MIFELLE UNIN & SUGAR NOEL WOODROW (\$) 12-0001-49.2 18 ROMAN JEWELL (\$) 12-0001-40.3 19 EARNEST ALLEN DOUGLAS (\$) 12-0001-43.1 20 HENRY LORI MYLES (\$) 12-0001-43.2 21 HENRY LORI MYLES (\$) 12-0001-42.1 22 KUMPEL TIM WET UX (\$) 12-0001-42.1 23 MARDLE JEFFREY J & BARBARA I (\$) 12-0001-43.1 24 HIGRIN SCONSTANCEL - LIFE (\$) 12-0001-43.1 25 COFFIED MORAEL LE TYLENE R (\$) 12-0001-43.1 26 SUGAR KAREN SCHENK (\$) 12-0001-43.1 27 SUGAR KAREN SCHENK (\$) 12-0001-43.1 28 STACEY VILLAGE UTD PARTNERSHIP (\$) 12-0001-43.1 29 MERIVAR KAREN SCHENK (\$) 12-0001-53.2 <t< td=""><td></td><td></td><td></td></t<> | | | |
| 13 STEGMAN MATTHEW D ET UX (S) 12:0018-25 14 ESTEP DOUGLAS J & LINDA R (S) 12:0001-36 15 SLIGAR NOEL W & CHRISTA M (S) 12:0001-36 16 MCCULEY DOSEPH DANIEL ET UX (S) 12:0001-36 17 LITTELL MINELLE LYNN & SUGAR NOEL WODOROW (S) 12:0001-46 18 ROMAN SEWELL (S) 12:0001-46 19 EAINEST ALLEN DOUGLAS (S) 12:0001-42 20 MENRY LORI MYLES (S) 12:0001-42 21 HENRY LORI MYLES (S) 12:0001-42 22 KIMPEL TIM WET UX (S) 12:0001-42 23 MARPLE LEFREY J & BARBARA 1(S) 12:0001-42 24 HIGGINS CONSTANCEL - USE (S) 12:0001-42 25 COFFIELD MICHAELL & TYLENE R (S) 12:0001-52 26 SUGAR AREN SCHENK (S) 12:0001-63 27 SUGAR AREN SCHENK (S) 12:0001-63 28 STACEY VILLAGE LTO PARTNERSHIF (S) 16:0001-85 30 CATHET HARDOD JACOB (S) 15:0001-75 31 CALUWELL WILLIAM B & CRYSTALK (S) 16:0001-63 32 | | | |
| 14 ESTEP DOUGLAS J & LINDA R (S) 12-0001-38 15 SLIGAR NOEL W & CHRISTA M (S) 12-0001-39.2 15 MCCULLY JOSEPH DANIEL ET UX (S) 12-0001-39.2 17 LITTELLMINELLE LYNN & SUGAR NOEL WOODROW (S) 12-0001-39.2 18 ROMAN HEWELL (S) 12-0001-40.3 19 EARNEST ALLEN DOUGLAS (S) 12-0001-40.3 20 HENRY LORI MYLES (S) 12-0001-42.3 21 HENRY LORI MYLES (S) 12-0001-42.3 22 KIMPEL TIM WET UX (S) 12-0001-42.3 23 MARDEL EFREY J & BARBARA 1(S) 12-0001-42.3 24 HIGGINS CONSTANCEL - LIFE (S) 12-0001-7.3 25 COPFIELD MICHAEL & TYLENER (S) 12-0001-7.3 26 SLIGAR KAREN SCHENK (S) 12-0001-7.3 27 SLIGAR KAREN SCHENK (S) 12-0001-7.3 28 STACEY VILLAGE UT PARTNERSHIP (S) 12-0001-7.3 29 MERINAR KENNETH LE, MERINAR MARES MARDIN, MERINAR 15-0001-7.5 30 EERHARD CAMERINA JANDEN MARDIN, MERINAR 15-0001-7.5 31 CALUET HAROLD SLISS 15-000 | | | |
| 15 SLIGAR NOEL W & CHRISTA M (5) 12-0001-39.2 15 MCCULEY JOSEPH DANIEL ET UX (5) 12-0001-39.2 17 LITTELL MINELLE LYNN & SUIGAR NOEL WODOROW (5) 12-0001-39.1 17 LITTELL MINELE LYNN & SUIGAR NOEL WODOROW (5) 12-0001-40.1 19 EARNEST ALLEN DOUGLAS (5) 12-0001-40.1 20 HENRY LORI MYLES (5) 12-0001-42.1 21 HENRY LORI MYLES (5) 12-0001-42.1 22 KIMPEL TIM WET UX (5) 12-0001-42.1 23 MARDE JEFREY J & BARBARA J (5) 12-0001-32.1 24 HIGGINS CONSTANCE L- LIFE (5) 12-0001-5.2 25 COFFIELD MICHAEL LE TVENER (5) 12-0001-5.2 26 SUIGAR KAREN SCHENK (5) 12-0001-5.2 27 SUIGAR KAREN SCHENK (5) 12-0001-7.3 28 STACEY VILLAGE LT D'PARTNERSHIP (5) 12-0001-5.2 29 MERINAR SAMES MARDIN, MERINAR 16-0001-5.2 29 MERINAR SAMES MARDIN, MERINAR 16-0001-7.3 20 CEPHELD MICHAEL LE TVENER (5) 15-0001-7.3 21 CLORTNAR SAMESINAR MARDIN, MERINAR <td></td> <td></td> <td></td> | | | |
| 17 LITTELL MARELLE LYAN & SUGAR NOEL WOODROW (S) 12-6001-80. 18 ROMAN EWELL (S) 12-6001-40. 19 EARNEST ALLEN DOUGLAS (S) 12-6001-40. 20 HENRY LORI MYLES (S) 12-6001-40. 21 HENRY LORI MYLES (S) 12-6001-42. 22 KUMPEL TIM WET UX (S) 12-6001-42. 23 MARZE EFRENY S BARBARA 1(S) 12-6001-42. 24 HIGGINS CONSTANCE L-LIFE (S) 12-6001-42. 24 HIGGINS CONSTANCE L-LIFE (S) 12-6001-42. 25 COPFIELD MYCHAEL & TYLENE R (S) 12-6001-7.3 26 SUGAR KAREN SCHENK (S) 12-6001-7.3 27 SUGAR KAREN SCHENK (S) 12-6001-8. 28 STALEY VILLAGE UTO PARTNERSHIP (S) 16-6002-1.3. 29 MERINAR KENNETH LEE, MERINAR MAREN MARDIN, MERINAR 15-0001-8. 30 EERHARD CAMERIN JACOB (S) 15-0001-8. 31 CALUET HAROLD J(S) 15-0001-7.5. 32 CATLET HAROLD J(S) 15-0001-7.5. 33 CATLET HAROLD J(S) 15-0001-7.5. 34 | the second se | | |
| 18 BOMAN JEWELL (9) 12-000-40.3 19 EARNEST ALLEN DOUGLAS (5) 12-000-40.1 20 HENRY LORI MYLES (5) 12-000-40.1 21 MENRY LORI MYLES (5) 12-000-40.1 22 KIMPEL TIM WET UK (5) 12-000-42.1 22 KIMPEL TIM WET UK (5) 12-000-42.1 23 MARSUE JEFFREY J & BARBARA J (5) 12-000-3.1 24 HIGGINS CONSTANCE L-UFE (5) 12-000-3.1 25 COFFIELD MICHAEL & TYLENER (5) 12-000-5 26 SUGAR KAREN SCHENK (5) 12-000-5 27 SUGAR KAREN SCHENK (5) 12-000-5 28 STACEY VILLAGE UTD PARTNERSHIP (5) 12-000-5 29 MERIVAR KENNETH LE, MERINAR JAMES MARDI, MERINAR 16-0002-57 30 EBERHARD CAMENON JACOB (5) 15-0001-85 31 CALUET HAROLD J(5) 15-0001-95 32 CATUET HAROLD J(5) 15-0001-95 33 CATUET HAROLD J(5) 15-0001-95 34 PERONI CONSTRUCTION INC (5) 15-0002-17 35 DORAN ROBERT F ET UK (5) | 15 | | |
| 19 EARNEST ALLEN DOUGLAS (5) 12-8021-40 20 HENRY LORI MYLES (5) 12-8021-43 21 HENRY LORI MYLES (5) 12-8021-43 22 KUMPELTIM WET UX (5) 12-8021-42 23 MARPLE JEFFREY J & BARBARA J (5) 12-8001-32 24 HIGGINS CONSTANCEL - UFE (5) 12-8001-32 24 HIGGINS CONSTANCEL - UFE (5) 12-8001-32 25 COFFIELD MORAELL & TYLENE R (5) 12-8001-32 26 SUGAR KAREN SCHENK (5) 12-8001-52 27 SUGAR KAREN SCHENK (5) 12-8001-52 28 STACEY VILLAGE LTO PARTNERSHIP (5) 16-0001-55 29 MERINAR KENNETH HEE, MERINAR STANLEY JOSEPH (5) 16-0001-75 30 EBERHARD CAMERON JACOB (5) 15-0001-75 31 CALUWELI WILLIAM B & CHENK (5) 16-0001-75 32 CATUET HAROLD J (5) 16-0001-75 33 CATUET HAROLD J (5) 16-0001-75 34 PERONI CONSTRUCTION INC (5) 16-0001-75 35 DORAN ROBERT F ET UX (5) 16-0001-75 34 <td< td=""><td></td><td></td><td></td></td<> | | | |
| 20 HENRY LORI MYLES (5) 12-6001-41. 21 HENRY LORI MYLES (5) 12-6001-42.3 22 KIMPEL TIM W ET UX (5) 12-6001-42.3 23 MARZIE JEFREY J & BARBARA J (5) 12-6001-42.3 24 HIGGINS CONSTANCE L+LIFE (5) 12-6001-7.3 25 COPFIELD MICHAEL L& TYLENE R (5) 12-6001-7.3 26 SUGAR AREN SCHENK (5) 12-6001-7.3 27 SUGAR AREN SCHENK (5) 12-6001-3.2 28 STACEY VILLAGE LTD PARTNERSHIP (5) 12-6001-5.2 29 MERINAR KENNETH LEF, MERINAR JAMES MARDIN, MERINAR 16-6002-3.3 29 MERINAR KENNETH LEF, MERINAR JAMES MARDIN, MERINAR 16-0001-85 30 EBERHARD CAMERON JACOB (5) 15-0001-75 31 CALUWELL WILLIAM & CAVSTALK (5) 15-0001-75 32 CATLETT HAROLD J (5) 15-0001-75 33 CATLETT HAROLD J (5) 15-0001-75 34 PERONI CONSTRUCTION INC (5) 15-0001-75 35 DORAN ROBERT FET UX (5) 16-0002-22 34 PERONI CONSTRUCTION INC (5) 15-0002-47 <td></td> <td></td> <td>and a creat carrie</td> | | | and a creat carrie |
| 21 HENRY LORI MYLES (S) 12-0001-42.1 22 KIMPEL TIM WET UX (S) 12-0001-32.1 23 MARDLE JEFFREY J & BARBARA J (S) 12-0001-32.1 24 HIGGINS CONSTANCE L-UFE (S) 12-0001-32.1 25 COFFIELD MICHAEL L & TYLENE R (S) 12-0001-3.1 26 SLIGAR KAREN SCHENK (S) 12-0001-5 27 SUGAR KAREN SCHENK (S) 12-0001-5 28 STACEY VILLAGE LTD PARTNERSHIP (S) 12-0001-6 29 MERINAR KENNETH LE, MERINAR JAMES MARDN, MERINAR 16-0002-1.2 30 EBERHARD CAMENON JACOB (S) 15-0001-85 31 CALUWELI WILLIAME & CRYSTALK (S) 15-0001-95 32 CATUETT HAROLD J (S) 15-0001-22 33 CATUETT HAROLD J (S) 16-0002-27 34 PERONI CONSTRUCTION INC (S) 15-00001-23 35 DORAN ROBERT F ET UX (S) 16-0002-12 36 RUMART KATHELEN S (S) 15-0202-13 37 DORAN ROBERT F ET UX (S) 15-0202-13 38 RUMART KATHELEN S (S) 15-0202C-15 31 | | | |
| 22 KIMPELTIM WETUX (S) 12-0001-32.1 23 MARRELEFREY & BARBARA 1(S) 12-0001-32.1 24 HIGGINS CONSTANCE L+ LIFE (S) 12-0001-32.1 25 COPFIELD MICHAEL & TYENE R (S) 12-0001-32.1 26 SUGAR KAREN SCHENK (S) 12-0001-5.2 27 SUIGAR KAREN SCHENK (S) 12-0001-5.2 28 STACEY VILLAGE TO PARTNERSHIP (S) 16-00021-32.1 29 MERINAR KENNETH LEF, MERINAR JAMES MARDN, MERINAR 16-00021-35.2 30 EBERHARD CAMERON JACOB (S) 15-0001-75 31 CALDWELL WILLIAM B & CRYSTAL K (S) 15-0001-75 32 CATLETT HAROLD J (S) 15-0001-75 33 CATLETT HAROLD J (S) 15-0001-75 34 PERONG CONSTRUCTION INC (S) 15-0001-75 35 DORAN ROBERT FET UX (S) 15-0001-75 36 DOYLE JOHN J Z TAMEMY R (S) 15-0001-75 37 DORAN ROBERT FET UX (S) 15-0001-75 38 DORAN ROBERT FET UX (S) 15-0002-17 39 SOLITH RONALD L& LORI A (S) 13-020CC-13 | | | |
| 24 HIGGINS CONSTANCE L-LIFE (3) 12-0001-7.3 25 COPFIELD MICHAEL L& TYLENER (5) 12-0001-7.3 26 SLIGAR KAREN SCHENK (5) 12-0001-7.3 27 SLIGAR KAREN SCHENK (5) 12-0001-5.2 28 STALEY VILLAGE LTD PARTNERSHIP (5) 12-0001-5.2 29 MERINAR KENNETH LEE, MERINAR SLAMES MARDIN, MERINAR 15-0001-85 30 EBERHARD CAMERINAR SLAMES MARDIN, MERINAR 15-0001-75 31 CALDWELL WILLIAM & SCRYSTALK (5) 15-0001-75 32 CATLETT HAROLD J(5) 15-0001-75 33 CATLETT HAROLD J(5) 15-0001-75 34 PERONI CONSTRUCTION INC (5) 15-0002-72 35 DORAN BOBERT FET UX (5) 15-0002-72 36 RUMART HAROLD (5) 15-0002-73 37 DORAN BOBERT FET UX (5) 15-0002-73 38 KUMARTIK ATHREN S (5) 15-0202-70 37 DORAN BOBERT FET UX (5) 16-0202-11 38 KUMARTIK ATHREN S (5) 13-0202-13 40 BELBY PATRICK H (5) 13-0202-15 31 | 22 | KIMPELTIM WET UX (S) | 12-0001-42 |
| 25 COFFIELD MICHAEL LETYLENER (S) 12-0001-10 26 SUGAR KAREN SCHENK (S) 12-0001-5.2 27 SLIGAR KAREN SCHENK (S) 12-0001-5.2 28 STACEY VILLAGE LTD PARTNERSHIP (S) 16-0001-5.2 29 MERINAR RENNETH LEE, MERINAR JAMES MARTIN, MERINAR 16-0001-85 30 EBERHARD CAMERON JACOB (S) 15-0001-75 31 CALOWELL WILLIAME & CRYSTAL K (S) 15-0001-75 32 CATLETT HAROLD J(S) 15-0001-75 33 CATLETT HAROLD J(S) 15-0001-75 34 PEGONE CONSTRUCTION INC (S) 15-0001-75 35 DORAN ROBERT F ET UX (S) 15-0001-75 36 DOVE JOHN J & TAMIMYR (S) 15-0002-72 37 DORAN ROBERT F ET UX (S) 15-002C-10 36 DOVE JOHN J & TAMIMYR (S) 13-02CC-10 37 DORAN ROBERT F ET UX (S) 15-02CC-10 38 RIBAMERK AT HEE TO X (S) 15-02CC-10 39 SOUTH RONALD & LORIA (S) 13-02CC-13 40 BELEN PATRICK H (S) 15-02CC-14 31 <t< td=""><td></td><td></td><td>12-0001-32.1</td></t<> | | | 12-0001-32.1 |
| 26 SUGAR KAREN SCHENK (S) 12-0001-5 27 SUGAR KAREN SCHENK (S) 12-0001-5.2 28 STACEY VILLAGE LTD PARTNERSHIF (S) 16-0002-1.3 29 MERIVAR KENNETH LEE, MERINAR MARTN, MERINAR 16-0001-85 29 MERIVAR KENNETH LEE, MERINAR MARTN, MERINAR 16-0001-75 30 EERHARD CAMERON JACOB (S) 15-0001-75 31 CALDWELL WILLIAM BIA CRYSTALK (S) 15-0001-75 32 CATLETT HARDOLD (S) 15-0001-22 33 CATLETT HARDOLD (S) 15-0001-23 34 PERONI CONSTRUCTION INC (S) 15-0002-17 35 DORAN ROBERT FET UX (S) 15-0002-17 36 DOYLE JOHN J & TAMIMYR (S) 15-0002-22 37 DORAN ROBERT FET UX (S) 15-020C-10 36 DOYLE JOHN J & TAMIMYR (S) 13-02CC-12 37 DORAN ROBERT FET UX (S) 15-02CC-10 38 KINAMER KATHEEN S (S) 13-02CC-12 39 SOUTH RIDNALD L & LORIN A (S) 13-02CC-12 40 BELING GLENAR ATHEEN S (S) 13-02CC-13 41 | | | |
| 27 SLIGAR KAREN SCHENK (5) 12-0001-5.2 28 STACEY VILAGE UTD PARTNERSHIP (5) 16-0002-1.3 29 MERINAR KENNETH LEF, MERINAR SLAMES MARTIN, MERINAR 16-0001-85 30 EEFREY THOMAS & MERINAR STANLEY JOSEPH (5) 16-0001-75 30 EERRHARD CAMERON JACOB (5) 15-0001-75 31 CALDWELL WILLIAM B & CRYSTALK (5) 16-0001-75 32 CATLETT HAROLD J(5) 15-0001-25 33 CATLETT HAROLD J(5) 15-0001-22 34 PERONI CONSTRUCTION INC (5) 15-0002-17 35 DORAN ROBERT FET UX (5) 16-0020-17 36 DOIVE JOHN J & TAMMY R (5) 13-0200-20 37 DORAN ROBERT FET UX (5) 16-0200-17 38 KIBAMER X THEEN S (5) 15-0200-11 39 SOUTH RONALD & LORAN SURA (5) 15-0200-11 39 SOUTH RONALD & LORAN K (5) 15-0200-11 39 SOUTH RONALD & LORAN AS (5) 15-0200-11 30 SOUTH RONALD & LORAN (5) 15-0200-11 40 BELBY PATRICK H(5) 15-0200-11 4 | | | |
| 29 MERINAR KENNETH LEF, MERINAR JAMES MARDN, MERINAR 15-0001-85 30 EBERHARD CAMERON JACOB (5) 15-0001-75 31 CALUWELLWILLAM B & CRYSTALK (5) 15-0001-75 32 CATLETT HAROLD J (5) 15-0001-75 33 CATLETT HAROLD J (5) 15-0001-75 34 PERONI CONSTRUCTION INC (5) 15-0001-75 35 DORAN ROBERT FE UX (5) 15-0001-75 36 DOVE JOHN J & TAMMYR (5) 15-0001-72 37 DORAN ROBERT FE UX (5) 16-020C-10 38 KIMAMER K THEREN (5) 15-020C-17 39 SOUTH ROMALD & KORIA (5) 15-020C-13 40 BELING GLENNA MARE (5) 15-020C-14 41 EBELING GLENNA MARE (5) 15-020C-15 42 CLAYTON GREG GRY P & DENISE (5) 15-020C-15 43 SCHUTZ JOHN A & | | | the second se |
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| 30 EBERHARD CAMERON JACOB [5] 15-0001-75 31 CALDWELL WILLIAM B & CRYSTAL K (5) 16-0001-75 32 CATLETT HAROLD J (5) 15-0001-23 33 CATLETT HAROLD J (5) 15-0001-23 34 PERONI CONSTRUCTION INC (5) 15-0002-37 35 DORAN ROBERT F ET UX (5) 16-02C-10 36 DOVL 5 JONN IX TAMMYR (5) 13-02C-20 37 DORAN ROBERT F ET UX (5) 15-02C-11 38 KIRAMERK A THERN S (5) 15-02CC-12 39 SOUTH ROMALD L& LORA A (5) 13-02CC-15 31 EBELING GLENNA MAE (5) 15-02CC-15 40 BELBY PATRICK H (5) 15-02CC-12 41 EBELING GLENNA MAE (5) 15-02CC-13 42 CLAYTON GREGORY P & DENISE (5) 15-02CC-14 43 SCHUTZ JOHN A & CINTHIA L (5) 13-0409-35, 44 PERONI CONSTRUCTION INC (5) 10-0495-12, 45 PERONI CONSTRUCTION INC (5) 10-0495-35, 46 BONACCI BRIAN F (5) 10-0495-32, 47 DUNLEVY RICHARD B & LENNIFER | 29 | | 16-0001-85 |
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| 32 CATLETT HAROLD J [5] 15-0001-22 33 CATLETT HAROLD J [5] 15-0001-22 34 PERONI CONSTRUCTION INC (5) 13-0002-17 35 DORANI ROBERT FETUX (5) 16-0020-10 36 DOYLE JOHN J Z TAMIMYR (5) 13-0202-00 37 DORANI ROBERT FETUX (5) 15-0202-10 38 KIRAMERKATHFEET IX (5) 15-0202-10 39 SOUTH RONALD L & LORIA (5) 13-0202-11 39 SOUTH RONALD L & LORIA (5) 13-0202-13 40 BELBY PATRICK H (5) 13-0202-15 41 EBELING GLENNA MAE (5) 13-0202-15 42 CLAYTON GREG GRY P & DENISE (5) 15-0202-14 43 SCHUTZ JOHN A & CYNTHIA L (5) 13-04095-39. 44 PERONI CONSTRUCTION INC (5) 10-0495-39. 45 PERONI CONSTRUCTION INC (5) 10-0495-39. 45 PERONI CONSTRUCTION INC (5) 10-0495-23. 47 DUNLEVY RICHARD B & LENNIFER L (5) 10-0495-23. 48 C J RYAN NC (5) 10-0495-23. 49 WHARTON PETER R AND WH | | | |
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| 37 DUNLEVY RICHARD B & JENNIFER L (5) 10-W35-215 48 C.J.RVAN NC (5) 10-W35-109 43 WHARTON PETER R AND WHARTON CHRISTINE L (5) P/C 10 V95010900000 V95010900000 V950109000000 | | PERONI CONSTRUCTION INC (5) | 10-W95-112 |
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| 43 WHARTON PETER R AND WHARTON CHRISTINE L (5) P/O 10 W95010900000 | | | |
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| A | SCHAFER ROY A JR & SCHAFER EDWARD J | 12-0009-23 |
| В | SCHAFER ROY A JR & SCHAFER EDWARD J | 12-0009-22.1 |
| C | CONSOLIDATION COAL COMPANY;MURRAY ENERGY C/O LAND DEPT | 12-0009-22.2 |
| D | ROMAN EUGENE M | 12-0010-01 |
| E | HOGG THOMAS S. & DONN W. ET AL | 13-0008-3 |
| F | HOGG THOMAS S. & DONN W. ET AL | 13-0008-4 |
| G | HARTJOHN J & RENEE A | 13-0008-4.1 |
| Н | BLACK TERRY J | 13-0003-12.7 |
| 1 | LILLEY DEANNA BLACK & MICHAEL | 13-0003-12.11 |
| 1 | BLACK DONNA M | 13-0003-12.12 |
| ĸ | BONACCI FRANK A | 13-0003-5.5 |
| L | BONACCI BRIAN F | 13-0003-5.1 12-001B-27.1 |
| M | MCADAMS ROBERT E & JODY L | 12-0018-27.1 |
| N | MATTUCCI MARK A | 12-0010-28.2 |
| 0 | MATTUCCI MARK A | 12-0018-28.2 |
| P | MATTUCCI MARK A | 12-0018-28.1 |
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| R | NORMAN LEA M ET VIR FERRERA THOMAS JR & SHAWNA | 12-0018-31.2 |
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| X | HAYNES LORIS MET AL | 12-0018-24 |
| Y | MCKENZIE DONALD F | 12-0018-23 |
| Z | KINS HEIDIJO | 12-0018-18 |
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| 82 | STEPHAN CRAIGE | 12-0001-41.1 |
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| F2 | NORMAN ARCH JASON & KIM S | 12-0018-11.1 |
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| HZ | WAYNE LYNN ANNE ET AL | 12-0001-42.3 |
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| 12 | HICKEY ERIC M | 12-0001-43.1 |
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| 12 | SCHAFER EDWARD J & BRENDA M | 12-0001-7.1 |
| M2 | HAND WILLIAM L& CARNEY-HAND CHARMAINE J | 12-001B-1 |
| N2 | SCHAFER EDWARD J ET UX | 12-C01B-3 |
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| \$2 | ELUOTT JOAN E - UFE | 12-0001-7 |
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| U2 | RUNKLE RICHARD T & MICHELLE L | 12-0001-9 |
| V2 | ELUOTT JOAN E -LIFE | 12-0001-8 |
| W2 | SLIGER KAREN SCHENK & TERRY B | 12-0001-6 |
| X2 | SLIGAR KAREN SCHENK & TERRY B | 12-0001-5.3 |
| ¥2 | WHITE HORSE FARM LLC | 13-0003-2 |
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| 13 | STACET VILLAGE LTD PARTNERSHIP | 16-0002-12 |
| 13 | STACEY VILLAGE LTD PARTNERSHIP | 16-0002-11 |
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| 13 | STACEY VILLAGE LTD PARTNERSHIP | 16-0002-9 |
| M3 | STACEY VILLAGE LTD PARTNERSHIP | 16-0002-8 |
| N3 | STACY CROSSING LIMITED PARTNERSHIP | 16-0002-1 |
| C3 | SCHERRER EDWARD A | 16-0001-76 |
| P3 | MERINAR KENNETH LEE, MERINAR JAMES MARTIN, MERINAR | 16-0001-77 |
| | JEFFREY THOMAS & MERINAR STANLEY IOSEPH | |
| 03 | POSEY CARY DAVID | 16-0001-78 |
| R3 | POSEY CARY DAVID | 16-0001-79 |
| 53 | TAYLOR MATTHEW J & CAROLINE | 16-0001-80 |
| T3 | TAYLOR MATTHEW J & CAROLINE | 16-0001-81 |
| U3 | DRNACH JOANN | 16-001-82 |
| EV | CATLETT DIANE, DEBOLT MATTHEW S & DEBOLT STEPHANIE R | 16-0001-83 |
| W3 | BLEIFUS BRIAN ALLAN | 16-0001-84 |
| X3 | EBERHARD CAMERON JACOB | 15-0001-85 |
| Y3 | FLEMINGLOISA | 15-0001-74 |
| 23 | GRIFFITH ROSE MARIE | 15-0001-54 |

12/03/2021

| REVISIONS: | COMPANY: | SWN Production Company, LLC | SWN Production Company | Rt W+0 |
|------------|------------------------|--------------------------------|---------------------------|---|
| | OPERATOR'S WELL #: | BETTY SCHAFER MSH 3H | | DATE: 10-13-2021 DRAWN BY: N. MANO |
| | DISTRICT: SAND HILL | COUNTY: MARSHALL | STATE: WV | SCALE: N/A DRAWING NO: WELL LOCATION PLAT |

Z\2021 BACKUPS\1-04-21 DJ\SWN\BETTY SCHAFER\WELL PLAT\3H\FINAL\B SCHAFER MSH 3H WELL PLAT 10-13-21\B. SCHAFER 10-13-21\B. SCHAF

JACKSON SURVEYING INC. 2413 EAST PIKE ST. # 112 Clarksburg, WV 26302 304-623-5851

| SURFACE OWNER | TAX PARCEL |
|--|--|
| KOSEN JOSEPH | 16-0001-56 |
| | 16-0001-55 |
| CARTER STEVEN | 15-0001-57 |
| BOWNAN MICHELE E | 16-0001-21 |
| BUNGARD SHAYNE D | 16-0001-20 |
| DIEFENBAUGH GREGORY & JESSICA | 16-0001-18 |
| NAUMANN ROBERT W & BECKY JANE | 16-0001-17 |
| MURAD THOMAS A ET UX | 16-0001-15 |
| SCHAFER JAMES H | 16-0001-14 |
| ROBINSON EUZABETH A | 16-0001-12 |
| TENNANT CALEB & AMANDA | 15-0001-7 |
| NORRIS BRANDON C& CARLIEL | 13-0002-21.1 |
| HOLDREN BARBARA | 13-0002-18 |
| LONG RICHARD E ET UX | 13-0002-20 |
| SCHANE THOMAS L& SANDREA M | 13-0002-19 |
| LONG TODD ELL | 13-0002-35 |
| SEIDLERE, DALEJR. | 13-0002-14.9 |
| E DLER TIMOTHY J, TRUSTEE OF THE PATRICIA L SEIDLEF | 13-0002-14.7 |
| the second s | 15-0002-14.7 |
| IRREVOCABLE TRUST DATED JANUARY 29, 2021 | 10 0000 100 |
| RAHBAR AHMAD CREDIT SHELTER TRUST | 13-0002-102 |
| RENFORTH GEORGE III | 13-0002-16,2 |
| POTTS PATRICK J & KRISTEN | 01-0RB2-31.9 |
| CARROLL PATRICK J & JEAN A | 10-0W94-1.1 |
| FARRELL STEPHEN V & CHRISTINE | 10 CW95-150 |
| LEFTIWCH NEIL & MCFARLAND JUDY | 10-0W95-151 |
| RALBOVSKY VICKI L: NICHERSON BRIAN D | 10-0W95-152 |
| TROSCHJUDITHS | 10-0W95-153 |
| DUKE MICHAEL S | 10-0W95-154 |
| HUGHES VICTORIA R | 10-0W95-155 |
| | |
| REMIAS WILLIAM P JR & MARY F | 10-0W95-156 |
| ROBINSON MACIE | 10-0W95-157 |
| EBARB JAN (CE L | 10-0W95-158 |
| PALMER JAMES 1 & STACLE R | 10 0W95 159 |
| SIEBER MICHAEL G & MARY C | 10-0W95-160 |
| TICICH JOSEPH B & JOHNSTON W L | 10-0W95-161 |
| GUERRIERO HOSEMARY E | 10-0W95-162 |
| LEE BOBIN M | 10-DW95-153 |
| ICE CHARLES AND ARLA D | 10 DW95 164 |
| SMITHBRANDONT | 10-DW95-168 |
| PELUCHETTE PAUL M. & HORAN MEGHAN | 10-0W95-194 |
| | 10-0W95-109.1 |
| TRUAX LEE D. & CLURE TARA S. | |
| PELUCHETTE PAUL M & HORAN MEGHAN E | 10-0W95-194 |
| SMITH DAVID L& DIANE K | 10-0W95-109.8 |
| C1RYAN INC. | 10-0W95-109.6 |
| MATYSKIELA ERIC & KRISTINA | 10-0W95-109.11 |
| NEVERLY RAYMOND J & MELANIE B | 10-0W95-109.4 |
| GALARDI & DIANE T | 10-0W95-109.3 |
| CONTRAGUERRO R C & . A | 10-0W95-109.10 |
| BIRCH SUSAN A | 10 0W95-58.5 |
| EVICK TIMOTHYL & MEUSSA R | 10.00/95-58.6 |
| GUMP RENTALS LLC | 1D-0W95-220 |
| SALEM THOMAS & RAULINE | 10-0W95-109.14 |
| SHARPSKY DAVID P & NANCY J | P/O 10-W95-105 |
| | |
| GUMP RENTALS LLC | 10-0W95-219 |
| BUTTS RONALD M& TINA M | 10-DW95-218 |
| BUTTS RONALD M & TINA M | 10-0W95-217 |
| SHELLER DONALD W & CHRISTY L | 10-0W95-216 |
| WILSON CHERYLB | 10-0W95-214 |
| WILSON CHERVLB | 10-CW95-221 |
| ROBRECHT RICHARD M& SUSAN L | 10-0W95-112.8 |
| KARRAS JOHN M REVOCABLE TR | 13-02CC-44 |
| KARRAS JOHN M REVOCABLE TR | 13-02CC-45 |
| SHAPAKA PHILIP M& SHIRLEY B | 13-02CC-42 |
| WHIPKEY ARCHIE W & RUTHA | 13-0200-43 |
| | |
| DOUGHERTY CHERYL L | 10 DW95-112.5 |
| VANAMAN ROBERT M & VICKI L | 10 DW95 112.6 |
| GILLESPIE DANIEL L & STEPHANIE H | 10 0W96-39.7 |
| EVANS LUTHER & LYNN M | 16-0200-33 |
| NARRISH ROBERT A | 16-02CC-34 |
| TUELJAMES E & UNDA | 16-02CC-35 |
| LAW CRYSTAL A & IVAN T | 16-02CC-36 |
| MEGALE WILLIAM B | 16-02CC-37 |
| BENNETT NEILS USA | 16-02CC-38 |
| VANDERGRIFT CHRISTOPHER & ERIKA L | 16-0200-39 |
| | 20.000.000 |
| MCCROSKEY ROBIN L | 16-0200-40 |
| | 16-02CC-26 |
| and the second sec | 13-02CC-25 |
| MILLER THOMASE & ANNA MARIE | 13-02CC-24 |
| STEPHENSON RICHARD E & LORI R | 13-02CC-21 |
| BIENIEK JACQUELINE S | 13-02CC-22 |
| | WALLACE KENNETH R SR & SUSAN BOBER SUZANNE L TROVATO MILLER THOMAS E & ANNA MARIE STEPHENSON BICHARD E & LORI B |

| the second | ADJOINING OWNERS TABLE | Lawrence |
|------------|--|--|
| RACT | SURFACE DWNER | TAX PARCEL |
| D7 | RADOSEVICH DEBORAH A | 16 020C-29 |
| E7 | WAGNER JOSEPH M & REBECCA L | 16-02CC-30 |
| F7 | GOODNIGHT LARRY S & LISA A | 16-02CC-31 |
| G7 | MURTY GOLLAPUDI 5 ET UK | 16-02CC-32 |
| H7 | DIETRICH THOMAS V & JUDITH L | 10-0W95-212 |
| 17 | RYAN CLINC | 10-0//95-211 |
| 17 | WHEELER CHARLES D AND DENISE M | 10-0W95-112.4 |
| 67 | PERONI CONSTRUCTION INC | 10-0W95-111-1 |
| 1.7 | PERONI CONSTRUCTION INC | 10-0W95-111 |
| M7 | PERONI LOUIS D & ELLEE M | 10-0W95-112.3 |
| N7 | BENTZ CHAD EDWARD & AMBER LYNN | 10-0W95-112.1 |
| 07 | PEKLINSKY CAROLENE B | 10 0W96 42 |
| P7 | DEI TODO D & STACIE L | 10-0W95-209 |
| Q7 | MUSSER NATHAN M & AMBER L | 10-0W98-31 |
| R7 | CARDINAL HEALTH 110 LLC | 10-0W95-39.1 |
| \$7 | WOJCIK STEPHEN E III & CRISTI | 10-0W96-41 |
| | | the state of the second s |
| 17 | ROBRECHT RICHARD M& SUSAN L | 10-0W95-112.7 |
| 17 | TIG PROPERTIES LLC | 10-0W99-08 |
| V7 | WALTON FAULA JEAN | 10-0W00-12 |
| W7 | DAVIS HEATHER A. | 10-0W99-11 |
| X7 | BOLDUC KATIE L/ & BRANDON E. | 10-0W98-05 |
| 47 | BOBER AMBROSE M & SHARON L | 13-02CC-17 |
| 27 | UTTLETON BRUCE C& ANITA L | 15-02CC-13 |
| AB | BOWMAN PATRICIAL | 16-02CC-12 |
| 83 | HARSH SANDRA | 16-0200-09 |
| CS | T J G PROPERTIES LLC | 16-02CC-09 |
| - | | and the second second |
| D8 | TIG PROPERTIES LLC | 13-0002-16 |
| Eß | MERRITT REBECCA A & ROBERT A; MILLER JR | 16-0001-27 |
| F8 | WHEELING MAR-WIN CHURCH OF; NAZARENE TRUSTEES | 16-0001-26 |
| GS | HONE MARK A ET UX | 16-0001-25 |
| H8 | GIBBONS MELISSA A | 16-0001-24 |
| 18 | GIBBONS MELISSA A | 16-0001-24.1 |
| 31 | LESNETT WALTER & KALYA | 16-0001-51 |
| KB | CALDWELL WILLIAM B& CRYSTAL K | 16-0001-50 |
| 18 | ELIAS BENJAMIN A | 16-0001-62 |
| | FARHATT MARY LAYNE | 16-0001-63 |
| MB | | |
| N8 | UNKNOWN | 12-001A-24 |
| 08 | ROMAGNOLI JUDY E | 12-001A-23 |
| P8 | HAMILTON MARY SCHENK & GARY P | 12-0001-5.1 |
| QS | REARDON SHELLY S | 12-0001-5,5 |
| R8 | HAMILTON MARY SCHENK & GARY P | 12-0001-5.4 |
| 58 | HARTMAN WALTER LET UX | 12-0001-10.1 |
| 18 | BARTOLOVICH STEPHEN M | 12-0001-47 |
| US | BARTOLOVICH STEPHEN M | 12-0001-11 |
| V8 | WALTON PAULA JEAN | 12-0001-30 |
| W8 | KUNTZJOHN H | 12-0001-31 |
| XS | CONSOLIDATION COAL COMPANY/MURRAY ENERGY C/O LAND DEPT | 12-0001-10.2 |
| | MERCER DARICK B & RENELA | 12-0001-32 |
| YB | | 12-0001-33.1 |
| 28 | ESTEP DOUGLAS J& LINDA R | |
| A9 | PATEL SHYAMSUNDAR K | 12-0001-35 |
| 89 | MALARSKI PETE E ET UX | 12-001B-33 |
| 09 | MALARSKI PETE E ET UX | 12-0018-55 |
| D9 | MALARSKI PETEE ET UX | 12-001B-36 |
| 69 | STEGMAN CATHERINE A | 12-0018-37 |
| F9 | STEGMAN CATHERINE A | 12-0018-37.1 |
| 69 | STEGMAN CATHERINE A | 12-001B-38 |
| H9 | WHARTON PETER R ET AL | 12-0001-34 |
| 19 | ADASE GEORGE & LAURIE | 12-0001-29 |
| 19 | SAVAGE CHARLES JACKSON | 12-0001-29.1 |
| _ | ADASE GEORGE & LAURIE | 12-0001-28 |
| KS | | |
| 19 | HADSELL SANDRA L | 12-0001-20 |
| M9 | MERINAR JUSTIN K | 12-0001-21 |
| N9 | DYE WILLIAM H, DYE RICHARD D, | 12-0039-06 |
| | & DYE MARK M; DYE-SCHOGER KIMBERLY | - |
| 09 | DYE WILLIAM R | 12-0009-01 |
| P9 | THIELE CHARLES L. & THIELE NADINE R. MANNERS | 12-0009-2.3 |
| Q9 | STRONG CREGORY S& LOUISE M | 12-0009-02 |
| R9 | MAAS BRIAN J & AMY C - TRUST | 13-0003-09 |
| 59 | LANGMYER BOOTTR & MELANEY F | 12-0003-03 |
| | LANGMYER RAYMOND | 12-0009-04 |
| 19 | | _ |
| Ug | GRAY JOHN ALVIN | 13-0003-13 |
| V9 | SMITH BEVERLY JILL ANITA | 12 0009 5 5 |
| W9 | STEADMAN FRANKLIN LET UX | 12-0009-5.1 |
| K9 | PROVANCE PRANK 1& EUZABETH A; PROVANCE BARRY F | 13-0005-14 |
| Y9 | SHEPHERD TIMOTHY & DEBOHAH L | 13-0003-14. |
| 79 | GRAYJOHN ALVIN | 12.0009.21 |
| A10 | JESTERS COURT 13 INC | 13-0003-14. |
| | | 13-0003-14 |
| B10 | JESTERS COURT 13 INC | |
| C10 | JESTERS DOURT 13 INC | 13-0003-14. |
| D10 | FISHER CHARLES B & CARLAS | 12-0009-20 |
| E10 | MERINAR CALVIN C - LIFE | 12-0009-19 |
| | FISH PATRICIA A & FREDERICK W | 12 0010 1.2 |

R-V+0 COMPANY: REVISIONS: SW SWN 4 Production Company, LLC Production Company* DATE: 10-13-2021 API # OPERATOR'S BETTY SCHAFER MSH WELL #: 3H 47-051-01407 DRAWN BY: N. MANO DISTRICT: COUNTY: STATE: SCALE: N/A DRAWING NO: 21/2021 BACKUPS/1-04-21 DJ/SWN/BETTY SCHAFER/WELL PLAT/3H/TINAL/B SCHAFER MSH 3H WELL PLAT 10-13-21/B. SCHAFER MSH 3H WELL PLAT 10-13-21 DWC WEDNESDAY OCTOBER 13 2021 01:04PM

Operator's Well No. ____Betty Schafer 3H

WW-6A1 (5/13)

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that -

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

| Lease Name or | | | | |
|---------------|-----------------------|-----------------------|---------|-----------|
| Number | Grantor, Lessor, etc. | Grantee, Lessee, etc. | Royalty | Book/Page |
| | | | | |

Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following: RECEIVED

Office of Oil and Gas

OCT 26 2021

- WV Division of Water and Waste Management WV Division of Natural Resources WV Division of Highways •
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- **County Floodplain Coordinator**

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

| | Well Operator: | SWN Production Company, LLC. | |
|-----------------------------------|----------------|------------------------------|--|
| RECEIVED | By: | Des Carlisle | |
| RECEIVED Office of Oil and Gas | Its: | Staff Landman | |
| 0.07 | | | |

ULI 26 2021

WV Department of Environmental Protection

Page 1 of _____

12/03/2021

WV Department of **Environmental Protection**

EXHIBIT "A" Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, L.L.C., Operator Betty Schafer North 3H Marshall County, West Virginia

| Tra | ict# | Tax Parcel | Lease Number | Lessor | Lessee | Royalty | BK/PG |
|-----|------|------------|--------------|--|-------------------------------------|---------|----------|
| 1 | 1 | 12-09-22 | 733731-000 | Betty Jane Schafer, a widow (Life Estate | TriEnergy Holdings, LLC | 18.00% | 722/505 |
| | | | | Interest); Roy Alvin Schafer, Jr. | | | |
| | | | | (Remainderman); and Edward J. Schafer | | | |
| | | | | (Remainderman) | | | |
| | | | | TriEnergy Holdings, LLC | NPAR, LLC | | 24/199 |
| | | | | NPAR, LLC | Chevron U.S.A. Inc. | | 756/332 |
| | | | | Chevron U.S.A. Inc. | Statoil USA Onshore Properties Inc. | | 30/494 |
| | | | | Chevron U.S.A. Inc. | Chesapeake Appalachia, L.L.C. | | 30/532 |
| | | | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 |
| | | | | Statoil USA Onshore Properties Inc. | SWN Production Company, LLC | | 33/424 |
| | | | Pending | Roy Alvin Schafer, Jr., a married man dealing in his sole and separate property | | 18.00% | 1077/97 |
| | | | 751411-001 | Edward John Schafer, a married man dealing in | SWN Production Company, LLC | 18.00% | 1077/102 |
| | | | | his sole and separate property | | | |
| | 2 | 12-09-24 | 733731-000 | Betty Jane Schafer, a widow (Life Estate | TriEnergy Holdings, LLC | 18.00% | 722/505 |
| | | | | Interest); Roy Alvin Schafer, Jr. | | | |
| | | | | (Remainderman); and Edward J. Schafer (Remainderman) | | | |
| | | | | TriEnergy Holdings, LLC | NPAR, LLC | | 24/199 |
| | | | | NPAR, LLC | Chevron U.S.A. Inc. | | 756/332 |
| | | | | Chevron U.S.A. Inc. | Statoil USA Onshore Properties Inc. | | 30/494 |
| | | | | Chevron U.S.A. Inc. | Chesapeake Appalachia, L.L.C. | | 30/532 |
| | | | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 |
| | | | | Statoil USA Onshore Properties Inc. | SWN Production Company, LLC | | 33/424 |
| | 3 | 13-03-14 | 744736-000 | John Alvin Gray and Judy C. Gray, his wife | Chesapeake Appalachia, L.L.C. | 18.00% | 840/631 |
| | | | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 35/32 |
| | 4 | 13-03-11 | 733785-000 | Mildred Black, a widow | TriEnergy Holdings, LLC | 12.50% | 748/226 |
| | | | | | | | 655/538 |
| | | | | TriEnergy Holdings, LLC | AB Resources | | 19/623 |
| | | | | AB Resources | Chevron U.S.A. Inc. | | 756/397 |
| | | | | Chevron U.S.A. Inc. | Statoil USA Onshore Properties Inc. | | 30/494 |
| | | | | Chevron U.S.A. Inc. | Chesapeake Appalachia, L.L.C. | | 30/532 |
| | | | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 |
| | | | | Statoil USA Onshore Properties Inc. | SWN Production Company, LLC | | 33/424 |

| | 5 | 13-03-10 | 744892-000 | Brian J. Maas and Amy C. Maas, Trustees under the Brian and Amy Maas Living Trust, dated August 6, 2007, as amended | r Chesapeake Appalachia, L.L.C. | 1 8.00% | 842/125 |
|---|----|--------------|------------|---|-------------------------------------|----------------|----------|
| | | | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 35/32 |
| | | | Pending | Brian J. Maas and Amy C. Maas, Trustees under | | 18.00% | 1106/609 |
| | | | e e | the Brian and Amy Maas Living Trust, dated | | | |
| | | | | August 6, 2007, as amended | | | |
| / | 6 | 13-03-08 | 749932-000 | Bounty Minerals, LLC | SWN Production Company, L.L.C. | 18.00% | 1074/555 |
| / | 0 | 13-03-08 | 147932-000 | boundy winesais, LEC | S with Floutetion Company, L.L.C. | 18.0076 | 1074/333 |
| 1 | 7 | 12-01B-34 | 733699-000 | Pete E. Malarski and Susan K. Malarski, his wife | TriEnergy Holdings, LLC | 16.00% | 701/460 |
| | | | | TriEnergy Holdings, LLC | NPAR, LLC | | 24/180 |
| | | | | NPAR, LLC | Chevron U.S.A. Inc. | | 756/332 |
| | | | | Chevron U.S.A. Inc. | Statoil USA Onshore Properties Inc. | | 30/494 |
| | | | | Chevron U.S.A. Inc. | Chesapeake Appalachia, L.L.C. | | 30/532 |
| | | | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 |
| | | | | Statoil USA Onshore Properties Inc. | SWN Production Company, LLC | | 33/424 |
| 1 | 8 | 12-01B-29 | 733695-000 | Mark A. Mattucci, a married man dealing in his | TriEnergy Holdings, LLC | 16.00% | 725/222 |
| | Ū | | | sole and separate property | | | |
| | | | | TriEnergy Holdings, LLC | NPAR, LLC | | 25/463 |
| | | | | NPAR, LLC | Chevron U.S.A. Inc. | | 756/332 |
| | | | | Chevron U.S.A. Inc. | Statoil USA Onshore Properties Inc. | | 30/494 |
| | | | | Chevron U.S.A. Inc. | Chesapeake Appalachia, L.L.C. | | 30/532 |
| | | | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 |
| | | | | Statoil USA Onshore Properties Inc. | SWN Production Company, LLC | | 33/424 |
| 1 | 9 | 12-01B-30 | 733696-000 | William J. Greene and Jannelle Greene, his wife | TriEnergy Holdings, LLC | 16.00% | 720/618 |
| | | | | | | | |
| | | | | TriEnergy Holdings, LLC | NPAR, LLC | | 25/463 |
| | | | | NPAR, LLC | Chevron U.S.A. Inc. | | 756/332 |
| | | | | Chevron U.S.A. Inc. | Statoil USA Onshore Properties Inc. | | 30/494 |
| | | | | Chevron U.S.A. Inc. | Chesapeake Appalachia, L.L.C. | | 30/532 |
| 1 | | | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 |
| - | | | | Statoil USA Onshore Properties Inc. | SWN Production Company, LLC | | 33/424 |
| | 10 | 12-01B-31.01 | 733698-000 | Thomas Ferrera, Jr. and Shawna L. Ferrera, his | TriEnergy Holdings, LLC | 16.00% | 720/616 |
| | | | | wife | | | |
| | | | | TriEnergy Holdings, LLC | NPAR, LLC | | 25/463 |
| | | | | NPAR, LLC | Chevron U.S.A. Inc. | | 756/332 |
| | | | | Chevron U.S.A. Inc. | Statoil USA Onshore Properties Inc. | | 30/494 |
| | | | | Chevron U.S.A. Inc. | Chesapeake Appalachia, L.L.C. | | 30/532 |
| | | | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 |
| | | | | Statoil USA Onshore Properties Inc. | SWN Production Company, LLC | | 33/424 |
| | 11 | 12-01B-32 | 745376-001 | John W. Griffith, a single person | SWN Production Company, L.L.C. | 18.00% | 879/374 |
| | | | | | | | |

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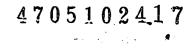
| | | | 745376-002 | Barbara J. Griffith, a single person | SWN Production Company, L.L.C. | 18.00% | 879/379 |
|---------------|----|-------------|------------|--|---|--------|---------|
| | 12 | 12-01-37 | 729062-000 | Thomas A. Griffith and Mary Ellen Griffith, his wife | Chesapeake Appalachia, L.L.C. | 18.00% | 723/131 |
| | | | | Chesapeake Appalachia, L.L.C. | Statoil USA Onshore Properties Inc. | | 25/582 |
| | | | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 |
| | | | | Statoil USA Onshore Properties Inc. | SWN Production Company, LLC | | 33/424 |
| <u>منعوني</u> | 13 | 12-01B-25 | 744283-000 | Matthew D. Stegman and Melissa J. Stegman, his wife | SWN Production Company, L.L.C. | 18.00% | 866/232 |
| — | 14 | 12-01-38 | 733632-000 | Douglas J. Estep and Linda R. Estep, his wife | NPAR, LLC | 18.00% | 718/318 |
| | | | | NPAR, LLC | Chief Exploration & Development LLC, Radler 2000 Limited Partnership | | 24/466 |
| | | | | Chief Exploration & Development LLC, Radler | | | 25/1 |
| | | | | 2000 Limited Partnership | | | 25/105 |
| | | | | NPAR, LLC | Chevron U.S.A. Inc. | | 756/332 |
| | | | | Chevron U.S.A. Inc. | Statoil USA Onshore Properties Inc. | | 30/494 |
| | | | | Chevron U.S.A. Inc. | Chesapeake Appalachia, L.L.C. | | 30/532 |
| | | | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 |
| | | | | Statoil USA Onshore Properties Inc. | SWN Production Company, LLC | | 33/424 |
| - | 15 | 12-01-39.02 | 733682-000 | Noel W. Sligar, a single man | TriEnergy Holdings, LLC | 16.00% | 711/515 |
| | | | | TriEnergy Holdings, LLC | NPAR, LLC | | 24/430 |
| | | | | NPAR, LLC | Chevron U.S.A. Inc. | | 756/332 |
| | | | | Chevron U.S.A. Inc. | Statoil USA Onshore Properties Inc. | | 30/494 |
| | | | | Chevron U.S.A. Inc. | Chesapeake Appalachia, L.L.C. | | 30/532 |
| | | | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 |
| | | | | Statoil USA Onshore Properties Inc. | SWN Production Company, LLC | | 33/424 |
| - | 16 | 12-01-39.01 | 728824-000 | Joseph Daniel McCulley, single | Chesapeake Appalachia, L.L.C. | 18.00% | 717/574 |
| | | | | Chesapeake Appalachia, L.L.C. | Statoil USA Onshore Properties Inc. | | 24/204 |
| | | | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 |
| | | | | Statoil USA Onshore Properties Inc. | SWN Production Company, LLC | | 33/424 |
| - | 17 | 12-01-39 | 728823-000 | John W. Sligar and Barbara C. Sligar, his wife | Chesapeake Appalachia, L.L.C. | 18.00% | 717/370 |
| | | | | Chesapeake Appalachia, L.L.C. | Statoil USA Onshore Properties Inc. | | 24/204 |
| | | | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 |
| | | | | Statoil USA Onshore Properties Inc. | SWN Production Company, LLC | | 33/424 |
| | 18 | 12-01-40.01 | 732779-000 | Jewell L. Roman, widow | Chesapeake Appalachia, L.L.C. | 18.00% | 761/256 |
| | | | | Chesapeake Appalachia, L.L.C. | Statoil USA Onshore Properties Inc. | | 31/246 |
| | | | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 |
| | | | | Statoil USA Onshore Properties Inc. | SWN Production Company, LLC | | 33/424 |

| 1 | 19 | 12-01-40 | 749928-000 | Allen Douglas Earnest and Pamela J. Earnest, husband and wife, as joint tenants with the right of survivorship | SWN Production Company, LLC | 18.00% | 1075/46 |
|------------|----|-------------|------------|--|--|---------|---------------------------------------|
| / - | 20 | 12-01-41 | 728709-000 | Gladys M. Griffith, widow Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. Statoil USA Onshore Properties Inc. | Chesapeake Appalachia, L.L.C. Statoil USA Onshore Properties Inc. SWN Production Company, LLC SWN Production Company, LLC | 18.00% | 717/358 24/204 33/110 33/424 |
| ~ - | 21 | 12-01-42.01 | 728709-000 | Gladys M. Griffith, widow Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. Statoil USA Onshore Properties Inc. | Chesapeake Appalachia, L.L.C. Statoil USA Onshore Properties Inc. SWN Production Company, LLC SWN Production Company, LLC | 18.00% | 717/358 24/204 33/110 33/424 |
| / - | 22 | 12-01-42 | 733634-000 | Tim W. Kimpel and Jennifer L. Kimpel, his wife | TriEnergy Holdings, LLC | 18.00% | 720/622 |
| | | | | TriEnergy Holdings, LLC NPAR, LLC | NPAR, LLC Chevron U.S.A. Inc. | | 25/463 26/269 756/307 |
| | | | | Chevron U.S.A. Inc. Chevron U.S.A. Inc. Chesapeake Appalachia, L.L.C. Statoil USA Onshore Properties Inc. | Statoil USA Onshore Properties Inc. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC SWN Production Company, LLC | | 30/494 30/532 33/110 33/424 |
| / • | 23 | 12-01-32.01 | 735449-001 | John H. Kuntz, a/k/a John Howard Kuntz, a single man | SWN Production Company, LLC | 18.00% | 1078/364 |
| | | | 735449-011 | Sally Mildred Alig, a widow and not remarried | SWN Production Company, LLC | 18.00% | 1078/310 |
| | | | 735449-007 | Sue Ann Marple, a widow and not remarried | SWN Production Company, LLC | 18.00% | 1078/346 |
| | | | 735449-008 | Joseph Lawrence Kuntz, a married man dealing in his sole and separate property | SWN Production Company, LLC | 18.00% | 1078/340 |
| | | | 735449-014 | Mary Darlene Bryniarski, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 18.00% | 1083/37 |
| | | | 735449-009 | Terrence Lee Kuntz, a married man dealing in his sole and separate property | SWN Production Company, LLC | 18.00% | 1078/322 |
| | | | 735449-013 | Mark David Kuntz, a married man dealing in his | SWN Production Company, LLC | 18.00% | 1078/352 |
| | | | 735449-010 | Stephen Carl Kuntz, a married man dealing in his sole and separate property | SWN Production Company, LLC | 18.00% | 1083/31 |
| | | | 735449-004 | Philip B. Kuntz, a/k/a Philip Kuntz, a divorced | SWAI Decelustics Commence LLC | 18.00% | 1083/281 |
| | | | /33449-004 | | SWN Production Company, LLC | 10.0070 | 1005/201 |
| | | | 735449-002 | man and not remarried Danial Kuntz, also known as Daniel Kuntz, a | SWN Production Company, LLC | 18.00% | 1078/334 |
| | | | | man and not remarried Danial Kuntz, also known as Daniel Kuntz, a single man Mary Nichole Kuntz, also known as Mary | | | |
| | | | 735449-002 | man and not remarried Danial Kuntz, also known as Daniel Kuntz, a single man | SWN Production Company, LLC | 18.00% | 1078/334 |

| | | | 735449-006 | David Patrick Kuntz, a single man | SWN Production Company, LLC | 18.00% | 1078/328 |
|------|----|-------------|------------|--|--|----------------|------------------|
| / - | 24 | 12-01-07.03 | 729124-000 | Constance L. Higgins, widow and unmarried Chesapcake Appalachia, L.L.C. | Chesapeake Appalachia, L.L.C. Statoil USA Onshore Properties Inc. | 18.00% | 726/288 26/42 |
| | | | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 |
| | | | | Statoil USA Onshore Properties Inc. | SWN Production Company, LLC | | 33/424 |
| / - | 25 | 12-01-10 | 745543-006 | Michael L. Coffield and Tylene R. Coffield, husband and wife | TH Exploration, LLC | 18.00% | 851/261 |
| | | | | TH Exploration, LLC | SWN Production Company, LLC | | 36/488 |
| / - | 26 | 12-01-05 | 733017-000 | Karen Schenk Sligar and Terry B. Sligar, wife and husband | Chesapeake Appalachia, L.L.C. | 18. 75% | 768/232 |
| | | | | Chesapeake Appalachia, L.L.C. | Statoil USA Onshore Properties Inc. | | 31/246 |
| | | | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 |
| | | | | Statoil USA Onshore Properties Inc. | SWN Production Company, LLC | | 33/424 |
| / - | 27 | 12-01-05.02 | 733017-000 | Karen Schenk Sligar and Terry B. Sligar, wife and husband | Chesapeake Appalachia, L.L.C. | 18.75% | 768/232 |
| | | | | Chesapeake Appalachia, L.L.C. | Statoil USA Onshore Properties Inc. | | 31/246 |
| | | | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 |
| | | | | Statoil USA Onshore Properties Inc. | SWN Production Company, LLC | | 33/424 |
| / - | 28 | 16-02-01.01 | 750313-000 | JRC Minerals, LLC, a West Virginia Limited Liability Company | American Petroleum Partners Operating, LLC | 18.00% | 984/321 |
| | | | | American Petroleum Partners Operating, LLC | SWN Production Company, LLC | | 45/381 |
| / - | 29 | 16-01-86 | Pending | Louise A. Rogers, widow | American Petroleum Partners Operating, LLC | 18.00% | 979/79 |
| | | | | American Petroleum Partners Operating, LLC | SWN Production Company, LLC | | 45/381 |
| | | | 750330-001 | Carolyn J. Bennett, widow | American Petroleum Partners Operating, LLC | 18.00% | 979/83 |
| | | | | American Petroleum Partners Operating, LLC | SWN Production Company, LLC | | 45/381 |
| | | | Pending | Frederick W. Rentschler, Jr. and Lynette M. | American Petroleum Partners Operating, LLC | 18.00% | 989/104 |
| | | | | Parker, husband and wife | | | 979/87 |
| | | | | American Petroleum Partners Operating, LLC | SWN Production Company, LLC | | 45/381 |
| ✓ - | 30 | 16-01-75 | Pending | Job Sorge, a single man | TH Exploration, LLC | 16.00% | 926/173 |
| | | | | TH Exploration, LLC | American Petroleum Partners Operating, LLC | | 43/497 |
| | | | | American Petroleum Partners Operating, LLC | SWN Production Company, LLC | | 45/381 |
| ✓ - | 31 | 16-01-59 | Pending | Robert E. Steele and Mary M. Steele, husband and wife | TH Exploration, LLC | 18.00% | 933/66 |
| | | | | TH Exploration, LLC | American Petroleum Partners Operating, LLC | | 43/497 |
| | | | | American Petroleum Partners Operating, LLC | SWN Production Company, LLC | | 45/381 |
| / - | 32 | 16-01-23 | 750066-000 | Harold J. Catlett, aka Harold Joseph Catlett, Jr., a widower | TH Exploration, LLC | 15.00% | 904/554 |
| | | | | TH Exploration, LLC | American Petroleum Partners Operating, LLC | | 43/497 |
| | | | | | | | |

| | | | | American Petroleum Partners Operating, LLC | SWN Production Company, LLC | | 45/381 |
|---|----|------------|------------|---|--|----------------|----------|
| - | 33 | 16-01-22 | 750066-000 | Harold J. Catlett, aka Harold Joseph Catlett, Jr., a widower | TH Exploration, LLC | 15.00% | 904/554 |
| | | | | TH Exploration, LLC | American Petroleum Partners Operating, LLC | | 43/497 |
| | | | | American Petroleum Partners Operating, LLC | SWN Production Company, LLC | | 45/381 |
| _ | 34 | 13-02-17 | Pending | Glenn D. Gardner, a/k/a Glenn Gardner, a married man dealing in his sole and separate property | SWN Production Company, LLC | 18.00% | 1106/375 |
| | | | Pending | Robin G. Anderson, a widow and not remarried | SWN Production Company, LLC | 18.00% | 1106/377 |
| | | | Pending | Holly Gardner-Tatomer, a/k/a Holly G. Tatomer, f/k/a Holly J. Gardner, a divorced woman and not remarried | SWN Production Company, LLC | 1 8.00% | 1106/373 |
| - | 35 | 16-02CC-10 | Pending | Glenn D. Gardner, a/k/a Glenn Gardner, a married man dealing in his sole and separate property | SWN Production Company, LLC | 18.00% | 1123/529 |
| | | | Pending | Robin G. Anderson, a widow and not remarried | SWN Production Company, LLC | 18.00% | 1123/533 |
| | | | Pending | Holly Gardner-Tatomer, a/k/a Holly G. Tatomer, f/k/a Holly J. Gardner, a divorced woman and not remarried | SWN Production Company, LLC | 1 8.00% | 1123/537 |
| | 36 | 13-02CC-20 | Pending | Glenn D. Gardner, a/k/a Glenn Gardner, a | SWN Production Company, LLC | 18.00% | 1119/630 |
| | | | | married man dealing in his sole and separate property | | | |
| | | | Pending | Robin G. Anderson, a widow and not remarried | SWN Production Company, LLC | 18.00% | 1120/219 |
| | | | Pending | Holly Gardner-Tatomer, a/k/a Holly G. Tatomer, f/k/a Holly J. Gardner, a divorced woman and not remarried | SWN Production Company, LLC | 18.00% | 1120/229 |
| - | 37 | 16-02CC-11 | Pending | Robert F. Doran and Geraldine E. Doran, his wife | American Petroleum Partners Operating, LLC | 17.00% | 941/488 |
| | | | | American Petroleum Partners Operating, LLC | SWN Production Company, LLC | | 45/381 |
| | 38 | 13-02CC-19 | Pending | Glenn D. Gardner, a/k/a Glenn Gardner, a married man dealing in his sole and separate property | SWN Production Company, LLC | 18.00% | 1119/630 |
| | | | Pending | Robin G. Anderson, a widow and not remarried | SWN Production Company, LLC | 18.00% | 1120/219 |
| | | | Pending | Holly Gardner-Tatomer, a/k/a Holly G. Tatomer, f/k/a Holly J. Gardner, a divorced woman and not remarried | SWN Production Company, LLC | 18.00% | 1120/229 |

| | ~ | 39 | 13-02CC-18 | Pending | Glenn D. Gardner, a/k/a Glenn Gardner, a married man dealing in his sole and separate property | SWN Production Company, LLC | 18.00% | 1119/630 |
|---|---|----|--------------|------------|---|--|--------|----------|
| | | | | Pending | Robin G. Anderson, a widow and not remarried | SWN Production Company, LLC | 18.00% | 1120/219 |
| | | | | Pending | Holly Gardner-Tatomer, a/k/a Holly G. Tatomer, f/k/a Holly J. Gardner, a divorced woman and not remarried | SWN Production Company, LLC | 18.00% | 1120/229 |
| / | | 40 | 13-02CC-15 | Pending | Glenn D. Gardner, a/k/a Glenn Gardner, a married man dealing in his sole and separate property | SWN Production Company, LLC | 18.00% | 1119/630 |
| | | | | Pending | Robin G. Anderson, a widow and not remarried | SWN Production Company, LLC | 18.00% | 1120/219 |
| | | | | Pending | Holly Gardner-Tatomer, a/k/a Holly G. Tatomer, f/k/a Holly J. Gardner, a divorced woman and not remarried | SWN Production Company, LLC | 18.00% | 1120/229 |
| 1 | | 41 | 13-02CC-16 | Pending | Glenn D. Gardner, a/k/a Glenn Gardner, a married man dealing in his sole and separate property | SWN Production Company, LLC | 18.00% | 1119/630 |
| | | | | Pending | Robin G. Anderson, a widow and not remarried | SWN Production Company, LLC | 18.00% | 1120/219 |
| | | | | Pending | Holly Gardner-Tatomer, a/k/a Holly G. Tatomer, f/k/a Holly J. Gardner, a divorced woman and not remarried | SWN Production Company, LLC | 18.00% | 1120/229 |
| 1 | | 42 | 16-02CC-41 | Pending | Glenn D. Gardner, a/k/a Glenn Gardner, a married man dealing in his sole and separate property | SWN Production Company, LLC | 18.00% | 1119/630 |
| | | | | Pending | Robin G. Anderson, a widow and not remarried | SWN Production Company, LLC | 18.00% | 1120/219 |
| | | | | Pending | Holly Gardner-Tatomer, a/k/a Holly G. Tatomer, f/k/a Holly J. Gardner, a divorced woman and not remarried | SWN Production Company, LLC | 18.00% | 1120/229 |
| 1 | | 43 | 10-W96-39.08 | Pending | Peroni Construction, Inc., a West Virginia Corporation | American Petroleum Partners Operating, LLC | 18.00% | 938/636 |
| | | | | | American Petroleum Partners Operating, LLC | SWN Production Company, LLC | | 980/572 |
| ~ | | 44 | 10-W96-39.02 | Pending | Peroni Construction, Inc., a West Virginia Corporation | American Petroleum Partners Operating, LLC | 18.00% | 938/636 |
| | | | | | American Petroleum Partners Operating, LLC | SWN Production Company, LLC | | 980/572 |
| J | | 45 | 10-W95-112 | 750388-000 | Peroni Construction, Inc., a West Virginia Corporation | American Petroleum Partners Operating, LLC | 18.00% | 938/122 |
| | | | | | American Petroleum Partners Operating, LLC | SWN Production Company, LLC | | 980/572 |



| / • | 46 | 10-W95-213 | Pending | Brian F. Bonacci, a single man | SWN Production Company, LLC | 18.00% | 1008/570 |
|-----|----|----------------|---------|---|--|--------|-----------------------------|
| / • | 47 | 10-W95-215 | Pending | Richard B. Dunlevy and Jennifer L. Dunlevy, husband and wife | SWN Production Company, LLC | 18.00% | 1002/735 |
| | 48 | 10-W95-109 | Pending | APP Minerals, LLC | American Petroleum Partners Operating, LLC | 15.00% | (977/379) 977/187 |
| | | | | American Petroleum Partners Operating, LLC | SWN Production Company, LLC | | 980/572 |
| / • | 49 | P/O 10-W95-109 | Pending | APP Minerals, LLC | American Petroleum Partners Operating, LLC | 15.00% | <i>(977/379)</i> 977/187 |
| | | | | American Petroleum Partners Operating, LLC | SWN Production Company, LLC | | 980/572 |
| /. | 50 | 10-W95-109.13 | Pending | Ridgetop Appalachia, LLC, a Delaware limited liability company | SWN Production Company, LLC | 18.00% | 1009/193 |
| | | | | | | | |



4 7 0 5 1 0 2 4 1 SWN Production Company, LLC 1300 Fort Plerpont Dr. Ste 201 Morgantown, WV 28508 Tel: 304 884 1610 Fax: 304 471 2497 www.swn.com

October 20, 2021

Taylor Brewer WV DEP Office of Oil & Gas 601 57th St., SE Charleston, WV 25304

RE: SWN's proposed New Well: Betty Schafer MSH 3H in Marshall County, West Virginia, Drilling under Walnut Grove Road, Big Wheeling Creek Road, Miller Hill Road, Britt Run Road, Cabin Lake Drive, Winter Ave, and Shrader Ave.

Dear Mr. Brewer:

SWN Production Company, LLC ("SWN") is applying for a drilling permit for the above referenced well. The State of West Virginia has raised some concern as to SWN's right to drill under Walnut Grove Road, Big Wheeling Creek Road, Miller Hill Road, Britt Run Road, Cabin Lake Drive, Winter Ave, and Shrader Ave. Please be advised that SWN has leased all mineral owners under said route as it relates to the above-referenced well and unit.

Thank you.

Sincerely,

Des Carlisle

Des Carlisle Staff Landman SWN Production Company, LLC

The Right People doing the Right Things, wisely investing the crist flow from our underlyin 2/03/2020 are+

RECEIVED Office of Oil and Gas

4705102417

WW-6AC (1/12)

OCT **26** 2021

WV Departmest pt A TE OF WEST VIRGINIA Environmental Projection DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE CERTIFICATION</u>

Date of Notice Certification:

API No. 47-051 -Operator's Well No. Betty Schafer MSH 3H Well Pad Name: Betty Schafer MSH Pad

Notice has been given:

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

| State: | West Virginia | UTM NAD 83 Easting: | |
|-------------|----------------|---------------------------|--------------------|
| County: | 051-Marshall | Northing: | |
| District: | Sand Hill | Public Road Access: | Big Wheeling Creek |
| Quadrangle: | Moundsville | Generally used farm name: | Betty Schafer |
| Watershed: | Wheeling Creek | | |

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.

| Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: | |
|---|------------------------|
| *PLEASE CHECK ALL THAT APPLY | OOG OFFICE USE ONLY |
| □ 1. NOTICE OF SEISMIC ACTIVITY or ■ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED | RECEIVED/ |
| □ 2. NOTICE OF ENTRY FOR PLAT SURVEY or ■ NO PLAT SURVEY WAS CONDUCTED | |
| 3. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or | RECEIVED/ NOT REQUIRED |
| U WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH) | |
| 4. NOTICE OF PLANNED OPERATION | |
| 5. PUBLIC NOTICE | |
| 6. NOTICE OF APPLICATION | □ RECEIVED |

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

Certification of Notice is hereby given:

4705102417

THEREFORE, 1 Brittany Woody

, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

| Well Operator: | SWN Production Co., LLC | Address: | 1300 Fort Pierpont Dr., Suite 201 |
|----------------|---|--------------------|-----------------------------------|
| By: | Brittany Woody mUX IN | and a | Morgantown, WV 26508 |
| Its: | Senior Regulatory Analyst | Facsimile: | 304-884-1690 |
| Telephone: | 304-884-1610 | Email: | Brittany_Woody@swn.com |
| | NOTAROFFICIAL SEAL Notary Public, State Of Thist Virginia ELIZABETH A. Y 632 Winery Road Buckhannon, WV 26201 My Commission Expires May 06, 2023 | Subscribed and swe | Dates Notary Public |

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.



RECEIVED Office of Oil and Gas

OCT 26 2021

WV Department of Environmental Protection

WW-6A (9-13)

OPERATOR WELL NO. Betty Schafer MSH 1H Well Pad Name: Betty Schafer MSH Pad

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.

| | e of Notice: | Date Permit Applica | tion Fil | ed: | |
|------|-----------------------------|-----------------------|----------|--|-----|
| 2 | PERMIT FOR ANY WELL WORK | | | OF APPROVAL FOR THE DN OF AN IMPOUNDMENT OR PIT | |
| Del | ivery method pursual | nt to West Virginia C | ode § 22 | 2-6A-10(b) | |
| | PERSONAL [SERVICE | ☑ REGISTERED MAIL | | METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION | |
| Purs | suant to W. Va. Code § | | | ling date of the application, the applicant for a permit for an | y · |

well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article: (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven a of this code, (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

☑ Application Notice ☑ WSSP Notice ☑ E&S Plan Notice ☑ Well Plat Notice is hereby provided to:

| SURFACE OWNER(s) | COAL OWNER OR L |
|---|-------------------------------|
| Name: Roy Schafer Jr. | Name: American Consol Jated M |
| Address: 3609 Big Wheeling Creek Road | Address: 46226 National Ros |
| Wheeling, WV 25003 | St. Clairsville, OH 43950 |
| Name: Edward Schafer | COAL OPERATOR |
| Address: 871 Big wheeling Creek Road | Name: |
| Wheeling, WV 26003 | Address: |
| SURFACE OWNER(s) (Road and/or Other Disturbance | :) |
| Name: | SURFACE OWNER C |
| Address: | AND/OR WATER PURT |
| | Name: See Attachment 13A. |
| Name: | Address: |
| Address: | |
| | OPERATOR OF ANY |
| □ SURFACE OWNER(s) (Impoundments or Pits) | Name: TC Energy Attn: Garret |
| Name: | Address: Houston Office Ban |
| Address: | Houston, TX 77002 |
| | *Please attach additional |

| Address: 46226 National Road | RECEIVED |
|---|--|
| St. Clairsville, OH 43950 | Office of Oil and Gas |
|] COAL OPERATOR Name: | OCT 26 2021 |
| Address: | WV Department of Environmental Protection |
| SURFACE OWNER OF WATER WELL | instruct rotection |
| AND/OR WATER PURVEYOR(s) | |
| Name: See Attachment 13A | |
| Address: | |
| OPERATOR OF ANY NATURAL GAS S | TORAGE FIELD |
| Name: TC Energy Attn: Carrett Word | |
| Address: Houston Office Bank of America 700 Louisiana 5 | |

Please attach additional forms if necessary

WW-6A (9-13)

OPERATOR WELL NO. Betty Schafer MSH 3H Well Pad Name: Betty Schafer MSH

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.

| | e of Notice: ice of: | Date Permit Application File | ed: |
|--|---|---|--|
| | PERMIT FOR ANY WELL WORK | | DF APPROVAL FOR THE ON OF AN IMPOUNDMENT OR PIT |
| Del | very method pursus | ant to West Virginia Code § 22 | 2-6A-10(b) |
| | PERSONAL SERVICE | REGISTERED AMAIL | METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION |
| certification ce | ficate of approval for stered mail or by any n ment control plan requ surface of the tract on nd gas leasehold being ribed in the erosion ar ator or lessee, in the e e coal seams: (4) The o work, if the surface tr bundment or pit as des e a water well, spring o ide water for consump tosed well work activitie ection (b) of this secti- rds of the sheriff requi- ision of this article to e R. § 35-8-5.7.a requ er purveyor or surface of the supplication Notice [| the construction of an impoundment method of delivery that requires a fired by section seven of this artic which the well is or is proposed to g developed by the proposed well and sediment control plan submittee went the tract of land on which the owners of record of the surface tra- ract is to be used for the placement seribed in section nine of this artic or water supply source located wit ption by humans or domestic animit ty is to take place. (c)(1) If more the irred to be maintained pursuant to a the contrary, notice to a lien holds if es, in part, that the operator shal owner subject to notice and water WSSP Notice DE&S Plan | ing date of the application, the applicant for a permit for any well work or for a ent or pit as required by this article shall deliver, by personal service or by receipt or signature confirmation, copies of the application, the erosion and le, and the well plat to each of the following persons: (1) The owners of record of the be located; (2) The owners of record of the surface tract or tracts overlying the work, if the surface tract is to be used for roads or other land disturbance as d pursuant to subsection (c), section seven of this article; (3) The coal owner, e well proposed to be drilled is located [sic] is known to be underlain by one or act or tracts overlying the oil and gas leasehold being developed by the proposed t, construction, enlargement, alteration, repair, removal or abandonment of any ele; (5) Any surface owner or water purveyor who is known to the applicant to hin one thousand five hundred feet of the center of the well pad which is used to hals; and (6) The operator of any natural gas storage field within which the han three tenants in common or other co-owners of interests described in applicant may serve the documents required upon the person described in the section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any testing as provided the Well Site Safety Plan ("WSSP") to the surface owner and any testing as provided in section 15 of this rule. |
| □ SI Nan | URFACE OWNER(s |) | COAL OWNER OR LESSEE |

Address: Address: 1000 Consol Energy Drive Canonsburg, PA 15317 Name: COAL OPERATOR Address: Name: Address: □ SURFACE OWNER(s) (Road and/or Other Disturbance) □ SURFACE OWNER OF WATER WELL Name: AND/OR WATER PURVEYOR(s) Address: Name: Name: Address: Address: OPERATOR OF ANY NATURAL GAS STORAGE FIELD □ SURFACE OWNER(s) (Impoundments or Pits) Name: Name: Address: Address: *Please attach additional forms if necessary

RECEIVED Office of Oil and Gas

WW-6A (8-13)

OCT 2 6 2021

API NO 47.457 0 5 1 0 2 4 1 OPERATOR WELL NO, Betty Scheller MSH 3H Well Pad Name: Betty Scheller MSH Pad

WV Department of Environmental Protection

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

This Notice Shall Include:

Notice is hereby given:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2,c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <u>www.dep.wv.gov/oil-and-gas/pages/default.aspx</u>.

Well Location Restrictions

Pursuant to W. Va, Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided. whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items



WW-6A (8-13)

OPERATOR WELL NO. Betty Schafer MSH 3H Well Pad Name: Betty Schafer MSH Pad

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

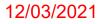
Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

Chief, Office of Oil and Gas Department of Environmental Protection 601 57th St. SE Charleston, WV 25304 (304) 926-0450 RECEIVED Office of Oil and Gas

OCT 26 2021

WV Department of Environmental Protection

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.



WW-6A (8-13) API NO. 47-05705102417

OPERATOR WELL NO. Betty Schafer MSH 3H Well Pad Name: Betty Schafer MSH Pad

Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have THIRTY (30) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2). Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site <u>http://www.dep.wv.gov/oil-and-gas/Horizontal-</u> <u>Permits/Pages/default.aspx</u> and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

RECEIVED Office of Oil and Gas

OCT 26 2021

WV Department of Environmental Protection

| WW-6A | 40 |
|---|----------------------|
| (8-13) | |
| Notice is hereby given by: | Address |
| Well Operator: SWN Production Co., LLC Telephone: 304-884-1610 | Address Morgantov |
| Email: Brittany_Woody@swn.com | Facsimil |

1024 API NO. 47 OPERATOR WELL NO. Betty Schafer MSH 3H

17

Well Pad Name: Betty Schafer MSH Pad

| Address: 1300 Fort Pierpont Dr., Suite 201 | | |
|--|--------------|--|
| Morgantown, V | WV 26508 | |
| Facsimile: | 304-884-1690 | |

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

before me this day of OFFICIAL SEAL Sub scribed and swor Notary Public, State Of ""st Virginia ELIZABETH / Y Notary Public 632 Winery Road Buckhannon, WV 26201 My Commission Expires May 06, 2023 My Commission Expires



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12/03/2021

WW-6A3 (1/12)

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF ENTRY FOR PLAT SURVEY

Notice Time Requirement: Notice shall be provided at least SEVEN (7) days but no more than FORTY-FIVE (45) days prior to entry Date of Notice: 10/17/2019 Date of Planned Entry: 10/24/2019

Delivery method pursuant to West Virginia Code § 22-6A-10a

PERSONAL I
 SERVICE

REGISTERED MAIL METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to West Virginia Code § 22-6A-10(a). Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to:

| SURFACE OWNER(s) | COAL OWNER OR LESSEE Name: C/O Leatherwood, Inc. Attn: Casey Saunders | 1 | RECEIVED Office of Oil and Gas |
|---------------------------------------|---|---|-----------------------------------|
| Address: 3604 Big Wheeling Creek Road | Address: 1000 Consol Energy Drive | _ | |
| Wheeling, WV 26003 | Canonsburg, PA 15317 | | OCT 26 2021 |
| Name: Roy Schaler, Jr. | | | 201 20 2021 |
| Address: 3509 Big Wheeling Creek | MINERAL OWNER(s) | | WV Department of |
| Wheeling, WV 26003 | Name: Betty Jane Schafer-LIFE, Alvin Schafer | / | Environmental Protection |
| Name: Edward Schafer | Address: 3609 Big Wheeling Creek | - | - |
| Address: 871 Big Wheeling Creek | Wheeling, WV 26003 | _ | - |
| Wheeling, WV 26003 | "please attach additional forms if necessary | - | 7 |

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

| State: | West Virginla | Approx. Latitude & Longitude: | 39,990980, -80.635696 | |
|-------------|---------------|-------------------------------|-------------------------------|---|
| County: | Marshall | Public Road Access: | Big Wheeling Creek Road | |
| District: | Sand Hill | Watershed: | Grendstaff Run-Wheeling Creek | |
| Quadrangle: | Moundsville | Generally used farm name: | Betty Schafer MSH | - |
| | | | | |

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting <u>www.dep.wv.gov/oil-and-gas/pages/default.aspx</u>.

Notice is hereby given by:

| Well Operator: | SWN PRODUCTION COMPANY, LLC | Address: | 1300 Fort Pierpant Dr., Suite 201 | |
|----------------|-----------------------------|------------|-----------------------------------|--|
| Telephone: | 304-884-1610 | | Morgantown, WV 26508 | |
| Email: | Brittany_Woody@swn.com | Facsimile: | 304-884-1690 | |

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wy.gov.

Operator Well No. Betty Schafer MSH

WW-6A3 (1/12)

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF ENTRY FOR PLAT SURVEY

Notice Time Requirement: Notice shall be provided at least SEVEN (7) days but no more than FORTY-FIVE (45) days prior to entry Date of Notice: 10/17/2019 Date of Planned Entry: 10/24/2019

Delivery method pursuant to West Virginia Code § 22-6A-10a

| PERSONAL | REGISTERED | ☐ METHOD OF DELIVERY THAT REQUIRES ▲ | A |
|----------|------------|--------------------------------------|---|
| SERVICE | MAIL | RECEIPT OR SIGNATURE CONFIRMATION | |

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to:

| F | EC | EN | /ED | |
|--------|------|-----|-----|-----|
| Office | of (| Dil | and | Gas |
| | | | | |

| SURFACE OWNER(s) | COAL OWNER OR LESSEE | OCT 26 2021 |
|------------------|---|--|
| Name: | Name: Murray Energy Corporation Alth: Mason Smith | - MALO |
| Address: | Address: 46226 National Road | WV Department of Environmental Protection |
| | St. Clairsville, OH 43950 | Environmental Protection |
| Name: | | |
| Address: | MINERAL OWNER(s) | |
| | Name: | |
| Name: | Address: | |
| Address: | | |
| | *please attach additional forms if necessary | |

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

| State: | West Virginia | Approx. Latitude & Longitude: | 39.990980, -80.635596 | |
|-------------|---------------|-------------------------------|-------------------------------|--|
| County: | Marshell | Public Road Access: | Big Wheeling Creek Road | |
| District: | Sand Hill | Watershed: | Grandstaff Run-Wheeling Creek | |
| Quadrangle: | Moundsville | Generally used farm name: | Betty Schafer MSH | |
| | | | | |

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting <u>www.dep.wv.gov/oil-and-gas/pages/default.aspx</u>.

Notice is hereby given by:

| Well Operator: | SWN PRODUCTION COMPANY, LLC | Address: | 1300 Fort Pierpont Dr., Suite 201 | |
|----------------|-----------------------------|------------|-----------------------------------|--|
| Telephone: | 304-884-1610 | | Morgantown, WV 26508 | |
| Email: | Brittany_Woody@swn.com | Facsimile: | 304-834-1690 9 | |

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@ww.gov.

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF INTENT TO DRILL

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

Notice Time Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application. Date of Notice: 09/21/2021 Date Permit Application Filed:

Delivery method pursuant to West Virginia Code § 22-6A-16(b)

| HAND | CERTIFIED MAIL |
|----------|--------------------------|
| DELIVERY | RETURN RECEIPT REQUESTED |

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: Provided, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: Provided, however, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

Notice is hereby provided to the SURFACE OWNER(s):

| Name: Roy A. Schafer Jr. | Name: Edward J. Schafer | Office of Oil and Gas |
|---------------------------------------|--------------------------------------|-----------------------|
| Address: 3609 Big Wheeling Creek Road | Address: 871 Big Wheeling Creek Road | |
| Wheeling, WV 26003 | Wheeling, WV 26003 | OCT 26 2021 |
| | | |

WV Department of

RECEIVED

Notice is hereby given:

Environmental Protection Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal NS:

| West Virginia |
|-----------------|
| Marshall |
| Sand Hill |
| Moundsville, WV |
| Wheeling Craek |
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| UTM NAD 83 | Easting: | 531 |
| UTMINAD 83 | Northing: | 4,42 |
| Public Road Ac | cess: | Big |
| Generally used farm name: | | Bett |

116.077 6.823.710 Wheeling Creek Road ty Schafer MSH

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

| Well Operator: | SWN Production Company, LLC | Authorized Representative: | Justin Booth | |
|----------------|------------------------------------|----------------------------|------------------------------------|--|
| Address: | 1300 Fort Pierpont Road, Suite 200 | Address: | 1300 Fort Pierpont Road, Suite 200 | |
| | Morgantown, WV 26508 | | Morgantown, WV 26508 | |
| Telephone: | 304-884-1675 | Telephone: | 304-884-1675 | |
| Email: | justin_booth@swn.com | Email: | justin_booth@swn.com | |
| Facsimile: | | Facsimile: | | |

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.



WW-6A5 (1/12)

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 09/21/2021 **Date Permit Application Filed:**

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

| CERTIFIED MAIL | HAND |
|--------------------------|----------|
| RETURN RECEIPT REQUESTED | DELIVERY |

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s)

| (at the address listed in the records of the sheriff at Name: Roy A. Schafer Jr. | t the time of notice): Name: Edward J. Schafer | Office of Oil and Gas |
|---|---|--|
| Address: 3609 Big Wheeling Creek Road | Address: 871 Big Wheeling Creek Road | OCT 26 2021 |
| Wheeling, WV 26003 | Wheeling, WV 26003 | |
| Notice is hereby given: | | WV Department of Environmental Protection |

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

| State: | West Virginia | LITMANAD 82 | Easting: | 531,116.077 | |
|------------------------|-----------------|-------------------|---------------------|-------------------------|--|
| County: | Marshall | UTM NAD 83 | Northing: | 4,426,823.710 | |
| District: | Sand Hill | Public Road Acc | Public Road Access: | Big Wheeling Creek Road | |
| Quadrangle: | Moundsville, WV | Generally used fa | arm name: | Betty Schafer MSH | |
| Watershed [*] | Wheeling Creek | | | | |

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section, (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-andgas/pages/default.aspx.

| Well Operator: | SWN Production Company, LLC | Address: | 1300 Fort Pierpont Road, Suite 200 | |
|----------------|-----------------------------|------------|------------------------------------|--|
| Telephone: | 304-884-1675 | 5 | Morgantown, WV 26508 | |
| Email: | justin_booth@swn.com | Facsimile: | | |

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wy.gov.



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

1900 Kanawha Boulevard East • Building Five • Room 110 Charleston, West Virginia 25305-0430 • (304) 558-3505

Byrd E. White, III Secretary of Transportation/ Commissioner of Highways Jimmy Wriston, P. E. Deputy Secretary/ Deputy Commissioner

September 14, 2021

James A. Martin, Chief Office of Oil and Gas Department of Environmental Protection 601 57th Street, SE Charleston, WV 25304

Subject: DOH Permit for the Betty Shaffer Pad, Marshall County Betty Shaffer MSH 3H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2014-0640 which has been issued to Southwestern Energy for access to the State Road for a well site located off Marshall County Route 5 SLS MP 3.71.

This operator is in compliance with §22-6A-20 of the WV Code. Operator has signed a STATEWIDE OIL AND GAS. ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated October 1, 2018. This letter is valid for permitting purposes for one year from the date of this letter.



Cc: Brittany Woody Southwestern Energy CH, OM, D-6 File Very Truly Yours,

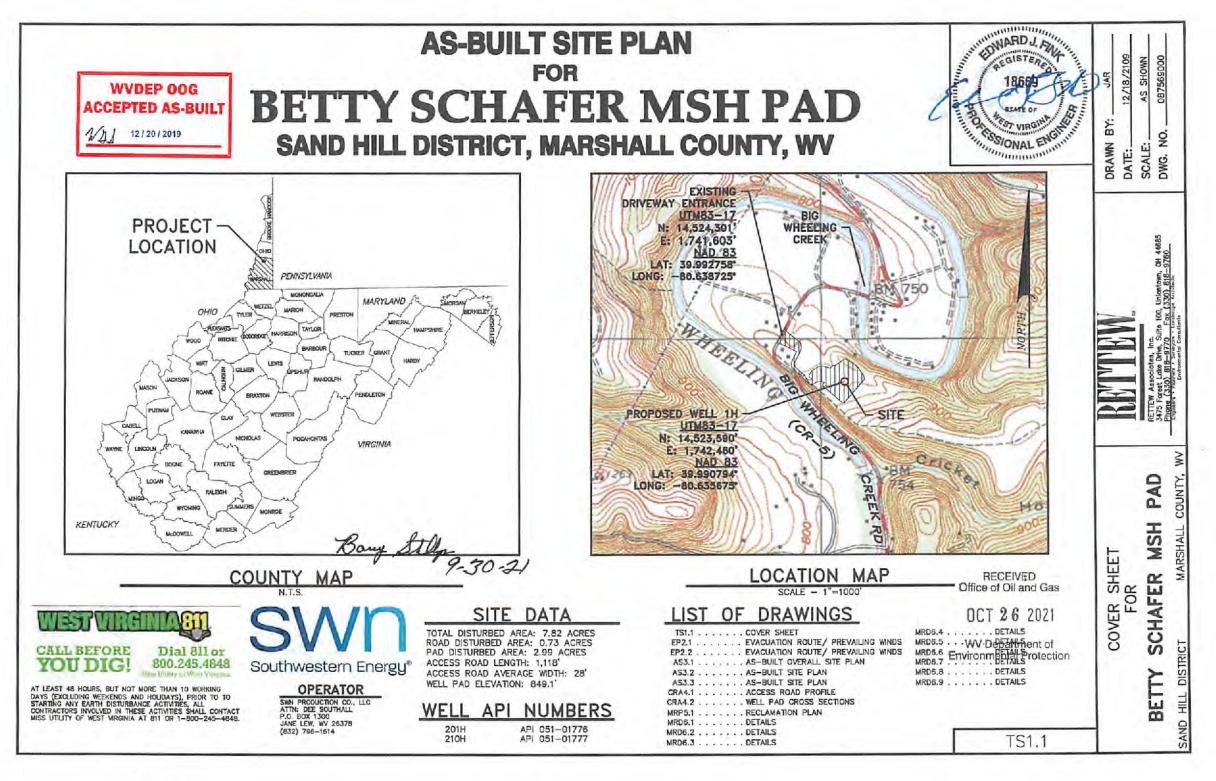
any K. Clayton

Gary K. Clayton, P.E. Regional Maintenance Engineer Central Office O&G Coordinator

Attachment VI Frac Additives

| Product Name | Product Use | Chemical Name | CAS Number |
|--|---------------------------|--|------------------------|
| I-303 (U.S. Well Services) | Mixture | Ethylene glycol | 107-21 1 |
| | | Cinnamaldehyde | 104-55 2 111-76 2 |
| | | Butyl cellosolve Formic acid | 64-18.6 |
| | | Polyether | Proprietary |
| | | Acetophenone, thiourea, formaldehyde polymer | 68527-491 |
| AP ONE (U.S. Well Services) | Breaker | Ammonium persulfate | 7727-54-0 |
| actron K-139 (Champion Technologies) | Bigcide | Slutaraldehyde | 111-30-8 |
| action is the ferrer inter territore fresh | | | |
| | | Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides | 68424-85-1 |
| | | Ethand | 64-17-5 |
| actron K-219 (Champion Technologies) | Biocide | Methanol | 67-56-1 |
| | | | |
| | | Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides | 68424-85-1 |
| arboNRT | Tracer | Ceramic Proppant | 66402-58-4 |
| C6486A (Nalco Champion) | Scale Inhibitor | Amine Triphosphate | Proprietary |
| | | Ethylene Glycol | 107-21-1 |
| C6734A (Champion Technologies) | Biocide | Hydrogen Peroxide | 7722-84-1 |
| | | Acetic Acid | 64-19-7 |
| | | Peroxyacetic Acid | 79-21-D |
| cono-Cl200 (5WN Well Services) | Corrosion Inhibitor | Methanol | 67-56-1 |
| | | Oxyalkylated fatty acid | 68951-57-7 |
| | | Fatty acids | 61790-12-3 |
| | | Modified thiourea polymer | 68527-49-1 |
| | | Water | 7732-18-5 |
| | | Hydrochloric acid | 7647-01-0 |
| | | Potassium acetate | 127-08-2 |
| | | Formaldehyde | 50-00-0 |
| copal-FEAC (SWN Well Services) | Iron Control | Acetic Acid | 64-19-7 |
| | | Citric Acid | 77-92-9 |
| | | Water | 7732-18-5 |
| DP-S117G-15 (Halliburton) | Friction Reducer | Polyacylate | Proprietary |
| | | Hydrotreated light petroleum distillate | 64742+47-8 |
| CIFT DR900 LPP [SWN Well Services) | Friction Reducer | Distillates (petroleum) hydrotreated light | 64674-47-8 |
| | | Ethylene Glycol | 107-21-1 |
| | | Alcohols, C12-16, Exoxylated propoxylated | 68213-24-1 |
| | | Fatty Alcohols ethoxylated | Proprietary |
| | | Water | 7732-18-5 |
| LOJET DRP 1130X (SWN Well Services) | Friction Reducer | Proprietary | Proprietary |
| R-75 (Halliburton) | Friction Reducer | Hydrotreated light petroleum distillate | 64742-47-8 |
| | | Inorganic Salt | Proprietary |
| YPTRON T-390 (Champion Technologies) | Scale Inhibitor | Methanol | 67-56-1 |
| | | Nonylphenol Ethoxylate | Proprietary |
| AI-150E (Halliburton) | Corrosion Inhibitor | No hazardous substance | N/A |
| ICL (SWN Well Services) | Hydrocholic Acid | Hydrochlorie Acid | 7647-01-0 |
| | | Water | 7732-18-5 |
| P-65 MC (Halliburton) | Scale Inhibitor | Organic phosphonate | Proprietary |
| | | Ammonium Chloride | 12125-02-9 |
| PTI-FLEX (U.S. Well Services) | Viscosifying Agent | Distillates, petroleum, hydrotreated light | 64742-47-8 |
| lexslick 930 | Friction Reducer | Copolymer of 2-propenamide | Proprietary |
| READING JOU | FIGURE ACADECT | Hydrotreated Distillate | 64742-47-8 |
| | | Sodium Chloride | 7647-14-5 |
| | | Alcohols, C12-15, Exoxylated | 68551-12-2 |
| | | Oleic Acid Diethanolamide | 93-83-4 |
| | | Ammonium Chloride | 12125-02-9 |
| lexslick 953 | Friction Reducer | Petroleum Distillate | 64742-47-8 |
| Investory And | a negeri neggeer | Sodium Chloride | 7647-14-5 |
| | | Ammonium Chloride | 12125-02-9 |
| | | N,N-bis (2-hydroxyethyl) pleamide | 93-83-4 |
| lexslick 957 | Friction Reducer | Petroleum Distillate | 64742-47-8 |
| IEADIEN 307 | Friction Reducer | Ammonium Chloride | 12125-02-9 |
| | | Oleic Acid Diethanolamide | 93-83-4 |
| | | Alcohols, C12-16, Exoxylated | 68551-12-2 |
| | | Water | 7732-15-5 |
| VFRA-2000 (U.S. Well Services) | Aniopic Friction Reducer | Hydrotreated light distillate (petroleum) | 64742-47-8 |
| and the second services (| Constant Chicago) Neuroel | Propenoic acid, polymer with propenamide | 9003-05 9 |
| exaid 655 NM | Scale Inhibitor | Disthylenetriamine penta (methylene phosphonic acid) | 15827-30-8 |
| lexslick 922 | no data available | Copolymer of 2-propenaminde | 69418-26-4 |
| CANNO JEE | He used evenable | Distillates (petroleum), hydotreated light | 64742-47-8 |
| | | Ammonium chloride ((NH4)CI) | 12125-02-95 |
| | | Oleic Acid Diethnolamide | 93-83-4 |
| olcide P550A | Biocidal product | Tetrakis (hydroxymethyl) phosphonium sulphate | |
| | Plantan bionon | Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate | 55556-30-8 |
| | | groups | 397256-50-7 |
| D-2950 | Friction Reducer | Hydrotreated light petroleum distillate | 64742-47-8 |
| | - CORDER COMPANY | Ethoxylated alcohol | Proprietary |
| | | | 0. |
| anand I D. 770MM | Table Control | Poly (oxy-1.2-ethanediyl) alphatridecylomegahydroxy-, branched | |
| egend LO-7750W | Scale Control | Methanol Rheenhouis Asid Salt | 67-56-1 Brondistant |
| | | Phosphonic Acid Salt Sodium Nitrate | Proprietary 7612/03/2 |
| VIC MX 8-4743 | Specialty Product | | |

WV Oupartment of Common Andrection



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